

Table C-16. Federal obligations for research, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

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Agency and subdivision	Total	Intra-mural ¹	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	30,922,269	7,964,727	4,635,074	844,134	11,741,033	2,742,980	2,425,249	214,489	240,080	114,503
Departments:										
Department of Agriculture, total	1,333,905	897,124	10,858	0	408,122	0	12,206	0	1,827	3,768
Agricultural Marketing Service	4,018	3,714	0	0	274	0	0	0	30	0
Agricultural Research Service	689,730	649,727	0	0	34,704	0	2,438	0	9	2,852
Cooperative State Research, Education, & Extension Service	386,445	19,923	8,920	0	349,997	0	6,383	0	1,222	0
Economic Research Service	71,547	63,077	1,900	0	4,961	0	467	0	311	831
Food Safety Inspection Service	125	125	0	0	0	0	0	0	0	0
Foreign Agricultural Service	1,422	971	0	0	451	0	0	0	0	0
Forest Service	172,300	154,710	38	0	15,610	0	1,602	0	255	85
Grain Inspection Packers & Stockyards Administration	549	549	0	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,333	3,112	0	0	205	0	16	0	0	0
Rural Business-Cooperative Svc	4,436	1,216	0	0	1,920	0	1,300	0	0	0
Department of Commerce, total	806,993	625,411	79,211	0	99,042	22	2,787	0	323	197
Bureau of the Census	5,166	5,166	0	0	0	0	0	0	0	0
Economic Development Admin	557	50	19	0	288	0	200	0	0	0
Nat'l Inst of Standards & Tech	305,376	209,924	75,266	0	19,356	22	611	0	0	197
Nat'l Oceanic & Atmospheric Admin	492,128	406,505	3,926	0	79,398	0	1,976	0	323	0
National Telecommunications & Information Administration	3,766	3,766	0	0	0	0	0	0	0	0
Department of Defense, total	3,969,891	1,407,916	1,371,604	12,053	964,689	84,369	86,489	17,464	0	25,307
Department of the Air Force	736,879	394,410	236,047	275	85,722	521	14,467	2,715	0	2,722
Department of the Army	817,841	454,988	224,863	274	108,916	655	20,562	3,793	0	3,790
Department of the Navy	822,158	323,021	231,196	2,258	225,873	8,319	22,169	1,968	0	7,354
Defense Agencies, total	1,593,013	235,497	679,498	9,246	544,178	74,874	29,291	8,988	0	11,441
Ballistic Missile Defense Org	126,801	24,783	83,050	100	7,081	9,536	541	0	0	1,710
Defense Adv Rsch Projects Agcy	856,268	68,221	434,870	5,121	261,874	43,494	28,332	7,818	0	6,538
Defense Info Systems Agcy	1,094	1,094	0	0	0	0	0	0	0	0
Defense Logistics Agency	8,016	7,171	0	0	0	0	0	845	0	0
Defense Threat Reduction Agency ²	205,073	61,136	130,687	3,940	2,414	3,985	0	125	0	2,786
Special Operations Command	15,696	4,755	9,578	0	1,363	0	0	0	0	0
Washington Headquarters Svcs	380,065	68,337	21,313	85	271,446	17,859	418	200	0	407
Department of Education	148,742	6,997	5,158	0	103,202	0	32,383	0	1,002	0
Department of Energy	3,787,511	183,005	202,914	669,206	563,536	1,934,102	65,786	164,943	2,955	1,064

See explanatory information, if any, and SOURCE at end of table.

Table C-16. Federal obligations for research, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

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Agency and subdivision	Total	Intra- mural ¹	Extramural								Foreign
			United States and territories								
			Indus- trial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti- tutions	FFRDCs admin by non- profit insti- tutions	State and local govts		
Dept of Health & Human Svcs, total	12,018,474	2,437,547	655,528	143,310	6,854,037	27,722	1,729,181	19,124	114,666	37,359	
Administration on Aging	2,435	185	0	0	0	0	250	0	2,000	0	
Admin for Children & Families	23,456	948	2,080	0	9,874	0	8,621	0	1,895	38	
Agcy for Hlth Care Policy & Rsch	138,798	28,467	52,297	0	37,020	0	20,770	0	0	244	
Centers for Disease Control & Prevention	343,559	239,825	33,336	0	61,368	0	3,260	0	5,770	0	
Food & Drug Administration	142,937	118,796	4,089	0	14,155	0	5,492	0	70	335	
Health Care Financing Admin	51,236	353	38,190	0	5,329	0	6,006	0	1,089	269	
Health Resources & Services Admin	12,925	2,960	0	0	7,529	0	2,436	0	0	0	
National Institutes of Health	11,289,180	2,041,475	524,275	143,310	6,715,863	27,722	1,680,106	19,124	100,832	36,473	
Office of the Secretary, total	13,948	4,538	1,261	0	2,899	0	2,240	0	3,010	0	
Office of the Asst Secretary, Planning & Evaluation	13,948	4,538	1,261	0	2,899	0	2,240	0	3,010	0	
Dept of Housing & Urban Development	9,211	6,263	913	0	478	0	1,557	0	0	0	
Department of the Interior, total	502,852	436,263	11,136	0	46,365	0	731	0	7,292	1,065	
Bureau of Reclamation	6,626	5,557	0	0	656	0	173	0	240	0	
Geological Survey	437,198	407,461	1,930	0	20,997	0	0	0	6,810	0	
Minerals Management Service	29,286	6,614	7,505	0	13,578	0	282	0	242	1,065	
National Park Service	29,742	16,631	1,701	0	11,134	0	276	0	0	0	
Department of Justice, total	42,005	3,366	10,920	0	18,201	0	7,312	0	2,206	0	
Bureau of Prisons	4,326	2,500	0	0	0	0	0	0	1,826	0	
Office of Justice Programs	37,679	866	10,920	0	18,201	0	7,312	0	380	0	
Department of Labor, total	22,079	10,689	4,108	0	6,208	0	1,074	0	0	0	
Bureau of Labor Statistics	12,400	8,400	0	0	4,000	0	0	0	0	0	
Employment & Training Admin	2,197	47	0	0	2,100	0	50	0	0	0	
Occupational Safety & Hlth Admin	4,592	1,697	2,895	0	0	0	0	0	0	0	
Office of the Secretary	95	30	0	0	65	0	0	0	0	0	
Pension Benefit Guaranty Corp	55	55	0	0	0	0	0	0	0	0	
Pension & Welfare Benefits Admin	2,740	460	1,213	0	43	0	1,024	0	0	0	
Department of State ³	852	324	513	0	0	15	0	0	0	0	
Department of Transportation, total	401,046	104,542	164,759	4,147	25,801	3,427	10,125	6,231	81,452	562	
Coast Guard	5,110	3,285	1,325	500	0	0	0	0	0	0	
Federal Aviation Administration	151,550	31,506	107,989	2,228	3,666	0	0	6,161	0	0	
Federal Highway Administration	169,605	30,417	33,975	1,419	11,633	3,370	7,339	0	81,452	0	
Federal Railroad Administration	21,191	9,360	9,945	0	350	0	1,404	0	0	132	
Federal Transit Administration	7,400	400	0	0	6,000	0	1,000	0	0	0	
National Highway Traffic Safety Administration	41,621	26,637	10,199	0	4,048	0	307	0	0	430	
Research & Special Programs Admin	4,569	2,937	1,326	0	104	57	75	70	0	0	
Department of the Treasury, total	52,553	38,746	13,807	0	0	0	0	0	0	0	
Bureau of Engraving & Printing	2,676	2,676	0	0	0	0	0	0	0	0	
Internal Revenue Service	47,942	35,053	12,889	0	0	0	0	0	0	0	
Office of Thrift Supervision	684	684	0	0	0	0	0	0	0	0	
United States Customs Service	776	50	726	0	0	0	0	0	0	0	
United States Secret Service	475	283	192	0	0	0	0	0	0	0	
Department of Veterans Affairs	269,066	269,066	0	0	0	0	0	0	0	0	

See explanatory information, if any, and SOURCE at end of table.

Table C-16. Federal obligations for research, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

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Agency and subdivision	Total	Intra- mural ¹	Extramural							Foreign
			United States and territories							
			Indus- trial firms	FFRDCs admin by in- dustrial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti- tutions	FFRDCs admin by non- profit insti- tutions	State and local govts	
Other agencies:										
Appalachian Regional Commission	680	15	200	0	400	0	65	0	0	0
Environmental Protection Agency	477,200	246,929	66,512	0	106,099	0	44,748	0	11,204	1,708
Federal Communications Commission	3,025	3,025	0	0	0	0	0	0	0	0
Federal Trade Commission	1,144	1,144	0	0	0	0	0	0	0	0
Internat'l Development Cooperation Agency, total	172,923	19,040	10,266	0	11,996	0	110,870	0	0	20,751
Agcy for Internat'l Development ⁴	172,923	19,040	10,266	0	11,996	0	110,870	0	0	20,751
Library of Congress	455	455	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	4,413,651	1,104,392	1,918,670	1,354	647,500	543,740	174,016	4,794	7,747	11,438
National Archives & Records Admin	120	120	0	0	0	0	0	0	0	0
National Science Foundation	2,289,337	16,954	101,421	0	1,874,860	139,079	144,022	211	3,596	9,194
Nuclear Regulatory Commission	51,700	14,301	3,486	14,064	5,180	10,504	353	1,722	0	2,090
Smithsonian Institution	120,000	120,000	0	0	0	0	0	0	0	0
Social Security Administration	17,422	2,336	2,415	0	5,317	0	1,544	0	5,810	0
Tennessee Valley Authority	809	809	0	0	0	0	0	0	0	0
US Arms Control & Disarmament Agcy ³ ..	1,200	525	675	0	0	0	0	0	0	0
United States Information Agency	258	258	0	0	0	0	0	0	0	0
US International Trade Commission	7,165	7,165	0	0	0	0	0	0	0	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² The Defense Threat Reduction Agency (DTRA) was established on October 1, 1998. DTRA was formed through a merger of elements of the Office of the Secretary of Defense staff, the Defense Technology Security Administration, the Defense Special Weapons Agency, and the On-Site Inspection Agency.

³ Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

⁴ Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-27. Federal obligations for basic research, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

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Agency and subdivision	Total	Intra- mural ¹	Extramural								Foreign
			United States and territories								
			Indus- trial firms	FFRDCs admin by in- dustrial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti- tutions	FFRDCs admin by non- profit insti- tutions	State and local govts		
Total, all agencies	15,613,012	2,917,780	1,119,681	326,405	7,952,176	1,642,306	1,397,565	121,849	84,876	50,374	
Departments:											
Department of Agriculture, total	603,763	421,443	3,798	0	173,716	0	2,730	0	404	1,672	
Agricultural Research Service	401,711	378,413	0	0	20,212	0	1,420	0	5	1,661	
Cooperative State Research, Education, & Extension Service	163,451	8,576	3,797	0	149,481	0	1,208	0	389	0	
Economic Research Service	7,155	7,155	0	0	0	0	0	0	0	0	
Food Safety Inspection Service	125	125	0	0	0	0	0	0	0	0	
Foreign Agricultural Service	924	721	0	0	203	0	0	0	0	0	
Forest Service	29,300	25,356	1	0	3,820	0	102	0	10	11	
Nat'l Agricultural Statistics Svc	1,097	1,097	0	0	0	0	0	0	0	0	
Department of Commerce, total	39,593	35,394	456	0	3,521	20	102	0	100	0	
Bureau of the Census	550	550	0	0	0	0	0	0	0	0	
Nat'l Inst of Standards & Tech	38,636	34,639	456	0	3,521	20	0	0	0	0	
Nat'l Oceanic & Atmospheric Admin	407	205	0	0	0	0	102	0	100	0	
Department of Defense, total	1,030,839	309,521	123,947	404	546,477	11,416	25,250	3,850	0	9,974	
Department of the Air Force	185,564	85,523	24,014	0	68,477	417	4,613	0	0	2,520	
Department of the Army	181,955	87,492	29,610	100	58,001	206	2,267	3,155	0	1,124	
Department of the Navy	328,975	109,119	32,956	226	157,677	6,123	16,896	0	0	5,978	
Defense Agencies, total	334,345	27,387	37,367	78	262,322	4,670	1,474	695	0	352	
Defense Adv Rsch Projects Agcy	78,259	6,367	35,394	0	29,507	4,670	1,474	695	0	152	
Washington Headquarters Svcs	256,086	21,020	1,973	78	232,815	0	0	0	0	200	
Department of Education	2,063	146	0	0	1,917	0	0	0	0	0	
Department of Energy	2,028,805	46,895	48,315	231,118	449,065	1,100,508	44,076	104,964	2,800	1,064	
Dept of Health & Human Svcs, total	7,355,363	1,263,026	322,957	93,364	4,467,813	18,555	1,098,686	10,596	57,352	23,014	
Health Resources & Services Admin	1,050	1,050	0	0	0	0	0	0	0	0	
National Institutes of Health	7,354,313	1,261,976	322,957	93,364	4,467,813	18,555	1,098,686	10,596	57,352	23,014	
Department of the Interior, total	48,733	45,384	0	0	3,168	0	120	0	61	0	
Geological Survey	48,187	45,344	0	0	2,782	0	0	0	61	0	
National Park Service	546	40	0	0	386	0	120	0	0	0	
Department of Justice, total	16,000	250	3,545	0	8,825	0	3,200	0	180	0	
Office of Justice Programs	16,000	250	3,545	0	8,825	0	3,200	0	180	0	
Department of Labor, total	11,100	7,100	0	0	4,000	0	0	0	0	0	
Bureau of Labor Statistics	11,100	7,100	0	0	4,000	0	0	0	0	0	
Department of Transportation, total	34,971	8,458	3,871	627	3,743	3,370	971	0	13,931	0	
Federal Highway Administration	34,971	8,458	3,871	627	3,743	3,370	971	0	13,931	0	
Department of the Treasury, total	34	34	0	0	0	0	0	0	0	0	
Bureau of Engraving & Printing	34	34	0	0	0	0	0	0	0	0	
Department of Veterans Affairs	120,015	120,015	0	0	0	0	0	0	0	0	

See explanatory information, if any, and SOURCE at end of table.

Table C-27. Federal obligations for basic research, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

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Agency and subdivision	Total	Intra- mural ¹	Extramural							
			United States and territories							Foreign
			Indus- trial firms	FFRDCs admin by in- dustrial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti- tutions	FFRDCs admin by non- profit insti- tutions	State and local govts	
Other agencies:										
Environmental Protection Agency	57,400	17,095	11,642	0	18,571	0	7,832	0	1,961	299
Internat'l Development Cooperation										
Agency, total	1,815	218	0	0	18	0	1,361	0	0	218
Agcy for Internat'l Development ²	1,815	218	0	0	18	0	1,361	0	0	218
National Aeronautics & Space Admin	2,023,793	506,613	559,885	892	495,494	369,358	79,826	2,239	4,547	4,939
National Science Foundation	2,118,677	16,140	41,265	0	1,775,848	139,079	133,411	200	3,540	9,194
Smithsonian Institution	120,000	120,000	0	0	0	0	0	0	0	0
Tennessee Valley Authority	48	48	0	0	0	0	0	0	0	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-38. Federal obligations for applied research, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

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Agency and subdivision	Total	Intra-mural ¹	Extramural							
			United States and territories							Foreign
			Indus-trial firms	FFRDCs admin by in-dustrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti-tutions	FFRDCs admin by non-profit insti-tutions	State and local govts	
Total, all agencies	15,309,257	5,046,947	3,515,393	517,729	3,788,857	1,100,674	1,027,684	92,640	155,204	64,129
Departments:										
Department of Agriculture, total	730,142	475,681	7,060	0	234,406	0	9,476	0	1,423	2,096
Agricultural Marketing Service	4,018	3,714	0	0	274	0	0	0	30	0
Agricultural Research Service	288,019	271,314	0	0	14,492	0	1,018	0	4	1,191
Cooperative State Research, Education, & Extension Service	222,994	11,347	5,123	0	200,516	0	5,175	0	833	0
Economic Research Service	64,392	55,922	1,900	0	4,961	0	467	0	311	831
Foreign Agricultural Service	498	250	0	0	248	0	0	0	0	0
Forest Service	143,000	129,354	37	0	11,790	0	1,500	0	245	74
Grain Inspection Packers & Stockyards Administration	549	549	0	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,236	2,015	0	0	205	0	16	0	0	0
Rural Business-Cooperative Svc	4,436	1,216	0	0	1,920	0	1,300	0	0	0
Department of Commerce, total	767,400	590,017	78,755	0	95,521	2	2,685	0	223	197
Bureau of the Census	4,616	4,616	0	0	0	0	0	0	0	0
Economic Development Admin	557	50	19	0	288	0	200	0	0	0
Nat'l Inst of Standards & Tech	266,740	175,285	74,810	0	15,835	2	611	0	0	197
Nat'l Oceanic & Atmospheric Admin	491,721	406,300	3,926	0	79,398	0	1,874	0	223	0
National Telecommunications & Information Administration	3,766	3,766	0	0	0	0	0	0	0	0
Department of Defense, total	2,939,052	1,098,395	1,247,657	11,649	418,212	72,953	61,239	13,614	0	15,333
Department of the Air Force	551,315	308,887	212,033	275	17,245	104	9,854	2,715	0	202
Department of the Army	635,886	367,496	195,253	174	50,915	449	18,295	638	0	2,666
Department of the Navy	493,183	213,902	198,240	2,032	68,196	2,196	5,273	1,968	0	1,376
Defense Agencies, total	1,258,668	208,110	642,131	9,168	281,856	70,204	27,817	8,293	0	11,089
Ballistic Missile Defense Org	126,801	24,783	83,050	100	7,081	9,536	541	0	0	1,710
Defense Adv Rsch Projects Agcy	778,009	61,854	399,476	5,121	232,367	38,824	26,858	7,123	0	6,386
Defense Info Systems Agcy	1,094	1,094	0	0	0	0	0	0	0	0
Defense Logistics Agency	8,016	7,171	0	0	0	0	0	845	0	0
Defense Threat Reduction Agency ²	205,073	61,136	130,687	3,940	2,414	3,985	0	125	0	2,786
Special Operations Command	15,696	4,755	9,578	0	1,363	0	0	0	0	0
Washington Headquarters Svcs	123,979	47,317	19,340	7	38,631	17,859	418	200	0	207
Department of Education	146,679	6,851	5,158	0	101,285	0	32,383	0	1,002	0
Department of Energy	1,758,706	136,110	154,599	438,088	114,471	833,594	21,710	59,979	155	0

See explanatory information, if any, and SOURCE at end of table.

Table C-38. Federal obligations for applied research, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

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Agency and subdivision	Total	Intra- mural ¹	Extramural								Foreign
			United States and territories								
			Indus- trial firms	FFRDCs admin by in- dustrial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit insti- tutions	FFRDCs admin by non- profit insti- tutions	State and local govts		
Dept of Health & Human Svcs, total	4,663,111	1,174,521	332,571	49,946	2,386,224	9,167	630,495	8,528	57,314	14,345	
Administration on Aging	2,435	185	0	0	0	0	250	0	2,000	0	
Admin for Children & Families	23,456	948	2,080	0	9,874	0	8,621	0	1,895	38	
Agcy for Hlth Care Policy & Rsch	138,798	28,467	52,297	0	37,020	0	20,770	0	0	244	
Centers for Disease Control & Prevention	343,559	239,825	33,336	0	61,368	0	3,260	0	5,770	0	
Food & Drug Administration	142,937	118,796	4,089	0	14,155	0	5,492	0	70	335	
Health Care Financing Admin	51,236	353	38,190	0	5,329	0	6,006	0	1,089	269	
Health Resources & Services Admin	11,875	1,910	0	0	7,529	0	2,436	0	0	0	
National Institutes of Health	3,934,867	779,499	201,318	49,946	2,248,050	9,167	581,420	8,528	43,480	13,459	
Office of the Secretary, total	13,948	4,538	1,261	0	2,899	0	2,240	0	3,010	0	
Office of the Asst Secretary, Planning & Evaluation	13,948	4,538	1,261	0	2,899	0	2,240	0	3,010	0	
Dept of Housing & Urban Development	9,211	6,263	913	0	478	0	1,557	0	0	0	
Department of the Interior, total	454,119	390,879	11,136	0	43,197	0	611	0	7,231	1,065	
Bureau of Reclamation	6,626	5,557	0	0	656	0	173	0	240	0	
Geological Survey	389,011	362,117	1,930	0	18,215	0	0	0	6,749	0	
Minerals Management Service	29,286	6,614	7,505	0	13,578	0	282	0	242	1,065	
National Park Service	29,196	16,591	1,701	0	10,748	0	156	0	0	0	
Department of Justice, total	26,005	3,116	7,375	0	9,376	0	4,112	0	2,026	0	
Bureau of Prisons	4,326	2,500	0	0	0	0	0	0	1,826	0	
Office of Justice Programs	21,679	616	7,375	0	9,376	0	4,112	0	200	0	
Department of Labor, total	10,979	3,589	4,108	0	2,208	0	1,074	0	0	0	
Bureau of Labor Statistics	1,300	1,300	0	0	0	0	0	0	0	0	
Employment & Training Admin	2,197	47	0	0	2,100	0	50	0	0	0	
Occupational Safety & Hlth Admin	4,592	1,697	2,895	0	0	0	0	0	0	0	
Office of the Secretary	95	30	0	0	65	0	0	0	0	0	
Pension Benefit Guaranty Corp	55	55	0	0	0	0	0	0	0	0	
Pension & Welfare Benefits Admin	2,740	460	1,213	0	43	0	1,024	0	0	0	
Department of State ³	852	324	513	0	0	15	0	0	0	0	
Department of Transportation, total	366,075	96,084	160,888	3,520	22,058	57	9,154	6,231	67,521	562	
Coast Guard	5,110	3,285	1,325	500	0	0	0	0	0	0	
Federal Aviation Administration	151,550	31,506	107,989	2,228	3,666	0	0	6,161	0	0	
Federal Highway Administration	134,634	21,959	30,104	792	7,890	0	6,368	0	67,521	0	
Federal Railroad Administration	21,191	9,360	9,945	0	350	0	1,404	0	0	132	
Federal Transit Administration	7,400	400	0	0	6,000	0	1,000	0	0	0	
National Highway Traffic Safety Administration	41,621	26,637	10,199	0	4,048	0	307	0	0	430	
Research & Special Programs Admin	4,569	2,937	1,326	0	104	57	75	70	0	0	
Department of the Treasury, total	52,519	38,712	13,807	0	0	0	0	0	0	0	
Bureau of Engraving & Printing	2,642	2,642	0	0	0	0	0	0	0	0	
Internal Revenue Service	47,942	35,053	12,889	0	0	0	0	0	0	0	
Office of Thrift Supervision	684	684	0	0	0	0	0	0	0	0	
United States Customs Service	776	50	726	0	0	0	0	0	0	0	
United States Secret Service	475	283	192	0	0	0	0	0	0	0	
Department of Veterans Affairs	149,051	149,051	0	0	0	0	0	0	0	0	

See explanatory information, if any, and SOURCE at end of table.

Table C-38. Federal obligations for applied research, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

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Agency and subdivision	Total	Intra-mural ¹	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by non-profit institutions	State and local govts	
Other agencies:										
Appalachian Regional Commission	680	15	200	0	400	0	65	0	0	0
Environmental Protection Agency	419,800	229,834	54,870	0	87,528	0	36,916	0	9,243	1,409
Federal Communications Commission	3,025	3,025	0	0	0	0	0	0	0	0
Federal Trade Commission	1,144	1,144	0	0	0	0	0	0	0	0
Internat'l Development Cooperation Agency, total	171,108	18,822	10,266	0	11,978	0	109,509	0	0	20,533
Agcy for Internat'l Development ⁴	171,108	18,822	10,266	0	11,978	0	109,509	0	0	20,533
Library of Congress	455	455	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	2,389,858	597,779	1,358,785	462	152,006	174,382	94,190	2,555	3,200	6,499
National Archives & Records Admin	120	120	0	0	0	0	0	0	0	0
National Science Foundation	170,660	814	60,156	0	99,012	0	10,611	11	56	0
Nuclear Regulatory Commission	51,700	14,301	3,486	14,064	5,180	10,504	353	1,722	0	2,090
Social Security Administration	17,422	2,336	2,415	0	5,317	0	1,544	0	5,810	0
Tennessee Valley Authority	761	761	0	0	0	0	0	0	0	0
US Arms Control & Disarmament Agcy ³ ..	1,200	525	675	0	0	0	0	0	0	0
United States Information Agency	258	258	0	0	0	0	0	0	0	0
US International Trade Commission	7,165	7,165	0	0	0	0	0	0	0	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² The Defense Threat Reduction Agency (DTRA) was established on October 1, 1998. DTRA was formed through a merger of elements of the Office of the Secretary of Defense staff, the Defense Technology Security Administration, the Defense Special Weapons Agency, and the On-Site Inspection Agency.

³ Effective April 1, 1999, all functions and authorities of the United States Arms Control & Disarmament Agency were transferred to the Department of State.

⁴ Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-49. Federal obligations for development, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

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Agency and subdivision	Total	Intra-mural ¹	Extramural								Foreign
			United States and territories								
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by non-profit institutions	State and local govts		
Total, all agencies	40,981,024	9,149,264	27,204,645	344,716	1,624,829	1,147,175	729,882	388,498	207,386	184,629	
Departments:											
Department of Agriculture, total	107,141	99,318	0	0	7,257	0	283	0	1	282	
Agricultural Marketing Service	703	703	0	0	0	0	0	0	0	0	
Agricultural Research Service	68,215	64,259	0	0	3,432	0	241	0	1	282	
Animal & Plant Hlth Inspection Svc	20,462	16,595	0	0	3,825	0	42	0	0	0	
Food Safety Inspection Service	65	65	0	0	0	0	0	0	0	0	
Forest Service	15,500	15,500	0	0	0	0	0	0	0	0	
Grain Inspection Packers & Stockyards Administration	2,196	2,196	0	0	0	0	0	0	0	0	
Department of Commerce, total	141,585	48,428	72,722	0	7,616	5	9,473	0	3,341	0	
Bureau of the Census	3,396	3,396	0	0	0	0	0	0	0	0	
Nat'l Inst of Standards & Tech	88,991	16,090	72,722	0	174	5	0	0	0	0	
Nat'l Oceanic & Atmospheric Admin	27,416	25,671	0	0	1,720	0	0	0	25	0	
National Telecommunications & Information Administration	21,782	3,271	0	0	5,722	0	9,473	0	3,316	0	
Department of Defense, total	31,316,332	6,870,947	22,969,765	72,968	457,501	262,837	139,297	290,463	110,448	142,106	
Department of the Air Force	13,102,171	1,135,442	11,564,064	18,225	31,008	103,983	522	135,951	110,370	2,606	
Department of the Army	4,219,894	1,409,401	2,661,880	2,462	59,033	29,444	21,265	21,959	75	14,375	
Department of the Navy	7,334,117	2,577,265	4,431,813	4,540	175,504	34,383	29,136	59,959	0	21,517	
Defense Agencies, total	6,387,766	1,517,401	4,291,527	47,741	191,956	95,027	88,374	52,129	3	103,608	
Ballistic Missile Defense Org	3,294,653	583,631	2,453,536	23,546	64,724	48,777	100	22,572	0	97,767	
Defense Adv Rsch Projects Agcy	1,146,841	226,581	750,014	4,868	88,852	25,164	34,042	16,428	0	892	
Defense Info Systems Agcy	54,544	16,026	32,763	506	0	312	0	4,937	0	0	
Defense Logistics Agency	114,122	29,503	32,771	0	4,138	100	47,320	290	0	0	
Defense Threat Reduction Agency ²	70,704	9,803	53,242	192	4,849	1,376	0	702	0	540	
Joint Staff	53,945	53,945	0	0	0	0	0	0	0	0	
Special Operations Command	126,996	38,480	86,973	1,543	0	0	0	0	0	0	
Washington Headquarters Svcs	1,525,961	559,432	882,228	17,086	29,393	19,298	6,912	7,200	3	4,409	
Operational Test & Evaluation, Director	30,339	7,281	8,253	0	0	0	0	14,805	0	0	
Test & Evaluation, Deputy Under Secretary of Defense	242,045	224,157	12,228	0	0	0	0	5,660	0	0	
Department of Defense, total advanced technology (at)	5,524,581	1,478,698	3,278,241	21,983	276,993	152,175	131,311	64,955	12,600	107,625	
Department of the Air Force (at)	1,431,316	524,758	760,083	5,697	29,672	80,854	0	17,652	12,600	0	
Department of the Army (at)	698,249	249,498	383,654	503	35,973	3,968	17,336	1,095	0	6,222	
Department of the Navy (at)	515,810	126,014	292,509	0	60,302	7,686	27,620	1,636	0	43	
Defense Agencies, total (at)	2,879,206	578,428	1,841,995	15,783	151,046	59,667	86,355	44,572	0	101,360	
Ballistic Missile Defense Organization (at)	996,052	133,941	703,779	588	25,705	14,504	50	21,816	0	95,669	
Defense Advanced Research Projects Agency (at)	1,061,711	191,744	699,721	4,868	88,852	25,164	34,042	16,428	0	892	
Defense Logistics Agency (at)	105,704	27,297	26,739	0	4,138	0	47,320	210	0	0	
Defense Threat Reduction Agency (at) ²	70,704	9,803	53,242	192	4,849	1,376	0	702	0	540	
Joint Staff (at)	53,945	53,945	0	0	0	0	0	0	0	0	
Special Operations Command (at)	52,796	15,997	36,151	648	0	0	0	0	0	0	
Washington Headquarters Services (at)	538,294	145,701	322,363	9,487	27,502	18,623	4,943	5,416	0	4,259	

See explanatory information, if any, and SOURCE at end of table.

Table C-49. Federal obligations for development, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

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Agency and subdivision	Total	Intra-mural ¹	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by non-profit institutions	State and local govts	
Department of Defense, total major systems (ms)	25,791,751	5,392,249	19,691,524	50,985	180,508	110,662	7,986	225,508	97,848	34,481
Department of the Air Force (ms)	11,670,855	610,684	10,803,981	12,528	1,336	23,129	522	118,299	97,770	2,606
Department of the Army (ms)	3,521,645	1,159,903	2,278,226	1,959	23,060	25,476	3,929	20,864	75	8,153
Department of the Navy (ms)	6,818,307	2,451,251	4,139,304	4,540	115,202	26,697	1,516	58,323	0	21,474
Defense Agencies, total (ms)	3,508,560	938,973	2,449,532	31,958	40,910	35,360	2,019	7,557	3	2,248
Ballistic Missile Defense Organization (ms)	2,298,601	449,690	1,749,757	22,958	39,019	34,273	50	756	0	2,098
Defense Advanced Research Projects Agency (ms)	85,130	34,837	50,293	0	0	0	0	0	0	0
Defense Information Systems Agency (ms)	54,544	16,026	32,763	506	0	312	0	4,937	0	0
Defense Logistics Agency (ms)	8,418	2,206	6,032	0	0	100	0	80	0	0
Special Operations Command (ms) ..	74,200	22,483	50,822	895	0	0	0	0	0	0
Washington Headquarters Services (ms)	987,667	413,731	559,865	7,599	1,891	675	1,969	1,784	3	150
Operational Test & Evaluation, Director (ms)	30,339	7,281	8,253	0	0	0	0	14,805	0	0
Test & Evaluation, Deputy Under Secretary of Defense (ms)	242,045	224,157	12,228	0	0	0	0	5,660	0	0
Department of Education	55,713	2,554	10,138	0	22,110	0	20,661	0	250	0
Department of Energy	2,086,293	280,215	1,083,921	249,019	59,660	302,070	14,515	95,528	419	946
Dept of Health & Human Svcs, total	1,685,758	371,845	102,465	19,913	874,728	2,460	275,888	1,387	32,864	4,208
Administration on Aging	7,991	341	228	0	850	0	4,626	0	1,946	0
Agcy for Hlth Care Policy & Rsch	7,700	7,700	0	0	0	0	0	0	0	0
National Institutes of Health	1,591,023	363,526	102,237	19,913	849,063	2,460	237,827	1,387	10,402	4,208
Office of the Secretary, total	3,054	277	0	0	2,777	0	0	0	0	0
Office of Public Hlth & Science	3,054	277	0	0	2,777	0	0	0	0	0
Substance Abuse & Mental Health Services Administration ³	75,990	1	0	0	22,038	0	33,435	0	20,516	0
Dept of Housing & Urban Development	18,796	10,697	5,594	0	180	0	2,325	0	0	0
Department of the Interior, total	29,117	24,569	2,895	0	1,609	0	0	0	44	0
Bureau of Reclamation	2,209	1,000	0	0	1,209	0	0	0	0	0
Geological Survey	26,908	23,569	2,895	0	400	0	0	0	44	0
Department of Justice, total	58,573	36,313	1,479	0	1,733	0	3,949	0	15,099	0
Bureau of Prisons	3,784	500	0	0	0	0	0	0	3,284	0
Federal Bureau of Investigation	35,812	35,812	0	0	0	0	0	0	0	0
Office of Justice Programs	18,977	1	1,479	0	1,733	0	3,949	0	11,815	0
Department of Labor, total	5,682	334	356	0	75	0	4,917	0	0	0
Employment & Training Admin	5,025	108	0	0	0	0	4,917	0	0	0
Office of the Secretary	105	30	0	0	75	0	0	0	0	0
Pension Benefit Guaranty Corp	552	196	356	0	0	0	0	0	0	0
Department of Transportation, total	165,071	86,251	26,334	190	12,078	0	5,194	0	35,024	0
Coast Guard	15,329	9,504	5,825	0	0	0	0	0	0	0
Federal Aviation Administration	76,431	61,130	9,617	0	5,684	0	0	0	0	0
Federal Highway Administration	57,664	9,148	9,994	190	2,497	0	1,785	0	34,050	0
Federal Railroad Administration	312	156	156	0	0	0	0	0	0	0
Federal Transit Administration	10,183	1,903	0	0	3,897	0	3,409	0	974	0
Office of the Secretary	3,433	3,433	0	0	0	0	0	0	0	0
Research & Special Programs Admin ...	1,719	977	742	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-49. Federal obligations for development, by agency and performer: fiscal year 1998 (revised)

[Dollars in thousands]

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Agency and subdivision	Total	Intra- mural ¹	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other non- profit insti- tutions	FFRDCs admin by non- profit insti- tutions	State and local govts	
Department of the Treasury, total	12,515	4,807	7,708	0	0	0	0	0	0	0
Bureau of Engraving & Printing	123	123	0	0	0	0	0	0	0	0
Internal Revenue Service	4,086	1,849	2,237	0	0	0	0	0	0	0
United States Customs Service	8,250	2,834	5,416	0	0	0	0	0	0	0
United States Mint	56	1	55	0	0	0	0	0	0	0
Department of Veterans Affairs	8,028	8,028	0	0	0	0	0	0	0	0
Other agencies:										
Environmental Protection Agency	94,000	8,059	24,823	0	39,598	0	16,701	0	4,181	638
Internat'l Development Cooperation										
Agency, total	39,109	3,520	391	0	1,564	0	33,243	0	0	391
Agcy for Internat'l Development ⁴	39,109	3,520	391	0	1,564	0	33,243	0	0	391
Library of Congress	1,087	425	637	0	25	0	0	0	0	0
National Aeronautics & Space Admin	5,154,378	1,291,108	2,895,417	2,626	139,095	579,803	203,436	1,120	5,715	36,058
Tennessee Valley Authority	1,846	1,846	0	0	0	0	0	0	0	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² The Defense Threat Reduction Agency (DTRA) was established on October 1, 1998. DTRA was formed through a merger of elements of the Office of the Secretary of Defense staff, the Defense Technology Security Administration, the Defense Special Weapons Agency, and the On-Site Inspection Agency.

³ Data for fiscal years 1998-2000 from the Substance Abuse & Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.

⁴ Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1998-2000) and AID's Federal funds survey submission to Vol. 44 (fiscal years 1994-1996). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A. For additional notes associated with the agencies listed in this table, refer to appendix B.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

**Table C-83. Federal obligations for research and development for selected agencies,
by State and performer: fiscal year 1998 (revised)**

[Dollars in thousands]

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State (in order of total Federal research & development obligations)	Total	Intra- mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other non- profit institu- tions	FFRDCs admin by nonprofit institu- tions	State and local govts
Total	70,512,996	16,544,621	31,764,775	1,174,386	13,189,193	3,879,236	2,934,878	602,808	423,099
California	12,215,846	1,595,270	5,937,882	13,220	1,886,772	2,017,569	519,452	120,883	124,798
Maryland	7,964,210	4,766,005	2,054,921	163,223	798,113	0	178,769	0	3,179
Ohio	5,562,227	698,173	4,388,253	0	344,724	0	125,380	0	5,697
Virginia	4,667,864	1,480,464	2,694,070	879	244,283	61,895	43,793	135,732	6,748
Texas	4,110,756	596,978	2,741,834	0	691,377	0	69,230	1,496	9,841
Georgia	3,442,612	235,596	2,920,561	0	270,814	0	10,287	0	5,354
Massachusetts	3,112,271	301,193	991,701	0	823,426	221,292	706,800	63,007	4,852
Florida	2,752,371	749,648	1,683,990	0	299,747	0	10,708	0	8,278
New York	2,551,833	191,988	709,033	0	1,121,737	213,181	221,286	0	94,608
District of Columbia	2,229,086	1,717,704	202,014	350	151,507	2,036	150,383	2,119	2,973
Alabama	2,012,829	752,619	878,065	0	225,263	130,201	24,312	0	2,369
New Mexico	1,891,565	395,908	170,514	614,018	85,267	608,320	15,147	0	2,391
Pennsylvania	1,886,258	132,927	702,304	219	853,437	16,884	173,970	0	6,517
New Jersey	1,459,570	392,554	784,488	0	218,031	37,387	17,106	6,082	3,922
Colorado	1,334,209	202,224	604,876	0	278,740	65,204	54,822	123,027	5,316
Washington	1,244,174	183,685	427,331	0	355,630	0	121,688	149,770	6,070
Illinois	1,127,553	71,946	82,221	0	504,232	398,996	61,529	0	8,629
Arizona	985,734	138,493	636,632	0	159,883	36,485	7,777	0	6,464
Missouri	930,735	48,544	560,924	0	294,459	0	22,202	0	4,606
North Carolina	924,652	235,873	121,168	0	499,001	0	63,610	0	5,000
Minnesota	807,083	38,437	472,522	0	196,262	0	93,791	0	6,071
Michigan	748,443	111,457	160,127	0	450,082	0	17,989	0	8,788
Connecticut	692,341	18,257	379,213	0	265,433	0	23,557	0	5,881
Tennessee	621,155	37,925	54,239	307,181	181,024	10,256	27,685	0	2,845
Utah	392,807	135,365	111,547	0	142,514	0	1,296	0	2,085
Rhode Island	385,411	222,106	78,082	0	60,182	0	22,978	0	2,063
Indiana	377,735	38,023	142,363	0	189,882	200	3,318	0	3,949
Wisconsin	332,203	38,021	16,017	0	265,640	0	8,233	0	4,292
Oregon	314,710	87,846	24,915	0	171,995	0	20,849	0	9,105
Nevada	290,853	48,514	211,316	0	25,268	0	4,107	0	1,648
Mississippi	280,366	132,896	70,301	0	67,535	0	7,886	0	1,748
New Hampshire	269,132	33,959	163,677	0	69,064	0	1,669	0	763
West Virginia	242,844	96,682	84,815	0	26,830	30,448	868	0	3,201
Iowa	236,084	32,701	24,757	0	150,856	20,824	4,093	0	2,853
Louisiana	223,555	84,315	20,104	0	111,713	0	4,117	0	3,306
Idaho	213,625	25,042	108,599	57,105	20,652	0	1,337	0	890
Kentucky	188,955	6,591	99,613	0	73,577	0	1,708	0	7,466
South Carolina	186,221	44,872	22,122	18,191	92,443	0	2,583	692	5,318
Oklahoma	175,497	51,038	54,017	0	60,570	0	7,988	0	1,884
Hawaii	160,826	54,776	30,246	0	52,256	0	21,777	0	1,771
Kansas	128,697	24,757	19,642	0	78,444	0	1,210	0	4,644
Alaska	106,939	44,010	17,637	0	29,598	0	3,707	0	11,987
Maine	103,901	10,953	44,317	0	15,190	0	31,050	0	2,391
Arkansas	97,026	45,895	2,199	0	44,974	0	2,488	0	1,470
Nebraska	84,982	28,873	2,104	0	46,328	0	6,572	0	1,105
Montana	80,670	33,101	9,897	0	32,949	0	3,149	0	1,574
Vermont	57,596	4,171	12,827	0	37,865	0	1,483	0	1,250
North Dakota	52,088	27,360	376	0	21,036	0	1,145	0	2,171
South Dakota	46,003	27,501	6,083	0	9,429	0	2,125	0	865
Delaware	45,214	3,722	7,877	0	29,971	0	3,042	0	602

See explanatory information, if any, and SOURCE at end of table.

**Table C-83. Federal obligations for research and development for selected agencies,
by State and performer: fiscal year 1998 (revised)**

[Dollars in thousands]

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State (in order of total Federal research & development obligations)	Total	Intra- mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other non- profit institu- tions	FFRDCs admin by nonprofit institu- tions	State and local govts
Wyoming	33,549	11,991	1,108	0	16,758	0	2,827	0	865
Outlying areas	111,908	40,238	16,847	0	46,129	8,058	0	0	636
Puerto Rico	61,938	7,476	51	0	45,718	8,058	0	0	635
Other areas	49,970	32,762	16,796	0	411	0	0	0	1
Offices abroad	18,222	15,434	2,487	0	301	0	0	0	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1998.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-83a. Percentage distribution of Federal obligations for research and development to each performer for selected agencies, by State: fiscal year 1998 (revised)

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State (in order of total Federal research & development obligations)	Total	Intra-mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
California	17.3	9.6	18.7	1.1	14.3	52.0	17.7	20.1	29.5
Maryland	11.3	28.8	6.5	13.9	6.1	.0	6.1	.0	.8
Ohio	7.9	4.2	13.8	.0	2.6	.0	4.3	.0	1.3
Virginia	6.6	8.9	8.5	.1	1.9	1.6	1.5	22.5	1.6
Texas	5.8	3.6	8.6	.0	5.2	.0	2.4	.2	2.3
Georgia	4.9	1.4	9.2	.0	2.1	.0	.4	.0	1.3
Massachusetts	4.4	1.8	3.1	.0	6.2	5.7	24.1	10.5	1.1
Florida	3.9	4.5	5.3	.0	2.3	.0	.4	.0	2.0
New York	3.6	1.2	2.2	.0	8.5	5.5	7.5	.0	22.4
District of Columbia	3.2	10.4	.6	*	1.1	.1	5.1	.4	.7
Alabama	2.9	4.5	2.8	.0	1.7	3.4	.8	.0	.6
New Mexico	2.7	2.4	.5	52.3	.6	15.7	.5	.0	.6
Pennsylvania	2.7	.8	2.2	*	6.5	.4	5.9	.0	1.5
New Jersey	2.1	2.4	2.5	.0	1.7	1.0	.6	1.0	.9
Colorado	1.9	1.2	1.9	.0	2.1	1.7	1.9	20.4	1.3
Washington	1.8	1.1	1.3	.0	2.7	.0	4.1	24.8	1.4
Illinois	1.6	.4	.3	.0	3.8	10.3	2.1	.0	2.0
Arizona	1.4	.8	2.0	.0	1.2	.9	.3	.0	1.5
Missouri	1.3	.3	1.8	.0	2.2	.0	.8	.0	1.1
North Carolina	1.3	1.4	.4	.0	3.8	.0	2.2	.0	1.2
Minnesota	1.1	.2	1.5	.0	1.5	.0	3.2	.0	1.4
Michigan	1.1	.7	.5	.0	3.4	.0	.6	.0	2.1
Connecticut	1.0	.1	1.2	.0	2.0	.0	.8	.0	1.4
Tennessee .....	.9	.2	.2	26.2	1.4	.3	.9	.0	.7
Utah .....	.6	.8	.4	.0	1.1	.0	*	.0	.5
Rhode Island .....	.5	1.3	.2	.0	.5	.0	.8	.0	.5
Indiana .....	.5	.2	.4	.0	1.4	*	.1	.0	.9
Wisconsin .....	.5	.2	.1	.0	2.0	.0	.3	.0	1.0
Oregon .....	.4	.5	.1	.0	1.3	.0	.7	.0	2.2
Nevada .....	.4	.3	.7	.0	.2	.0	.1	.0	.4
Mississippi .....	.4	.8	.2	.0	.5	.0	.3	.0	.4
New Hampshire .....	.4	.2	.5	.0	.5	.0	.1	.0	.2
West Virginia .....	.3	.6	.3	.0	.2	.8	*	.0	.8
Iowa .....	.3	.2	.1	.0	1.1	.5	.1	.0	.7
Louisiana .....	.3	.5	.1	.0	.8	.0	.1	.0	.8
Idaho .....	.3	.2	.3	4.9	.2	.0	*	.0	.2
Kentucky .....	.3	*	.3	.0	.6	.0	.1	.0	1.8
South Carolina .....	.3	.3	.1	1.5	.7	.0	.1	.1	1.3
Oklahoma .....	.2	.3	.2	.0	.5	.0	.3	.0	.4
Hawaii .....	.2	.3	.1	.0	.4	.0	.7	.0	.4
Kansas .....	.2	.1	.1	.0	.6	.0	*	.0	1.1
Alaska .....	.2	.3	.1	.0	.2	.0	.1	.0	2.8
Maine .....	.1	.1	.1	.0	.1	.0	1.1	.0	.6
Arkansas .....	.1	.3	*	.0	.3	.0	.1	.0	.3
Nebraska .....	.1	.2	*	.0	.4	.0	.2	.0	.3
Montana .....	.1	.2	*	.0	.2	.0	.1	.0	.4
Vermont .....	.1	*	*	.0	.3	.0	.1	.0	.3
North Dakota .....	.1	.2	*	.0	.2	.0	*	.0	.5
South Dakota .....	.1	.2	*	.0	.1	.0	.1	.0	.2
Delaware .....	.1	*	*	.0	.2	.0	.1	.0	.1

See explanatory information, if any, and SOURCE at end of table.

Table C-83a. Percentage distribution of Federal obligations for research and development to each performer for selected agencies, by State: fiscal year 1998 (revised)

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State (in order of total Federal research & development obligations)	Total	Intra-mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Wyoming	*	0.1	*	.0	0.1	.0	0.1	.0	0.2
Outlying areas	0.2	.2	0.1	.0	.3	0.2	.0	.0	.2
Puerto Rico .....	.1	*	*	.0	.3	.2	.0	.0	.2
Other areas .....	.1	.2	.1	.0	*	.0	.0	.0	*
Offices abroad	*	.1	*	.0	*	.0	.0	.0	.0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1998.

KEY: * = Amount less than .05 percent
FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

Table C-83b. Percentage distribution of Federal obligations for research and development to each State for selected agencies, by performer: fiscal year 1998 (revised)

Page 1 of 2

State (in order of total Federal research & development obligations)	Total	Intra-mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Total	100.0	23.5	45.0	1.7	18.7	5.5	4.2	0.9	0.6
California	100.0	13.1	48.6	.1	15.4	16.5	4.3	1.0	1.0
Maryland	100.0	59.8	25.8	2.0	10.0	.0	2.2	.0	*
Ohio	100.0	12.6	78.9	.0	6.2	.0	2.3	.0	.1
Virginia	100.0	31.7	57.7	*	5.2	1.3	.9	2.9	.1
Texas	100.0	14.5	66.7	.0	16.8	.0	1.7	*	.2
Georgia	100.0	6.8	84.8	.0	7.9	.0	.3	.0	.2
Massachusetts	100.0	9.7	31.9	.0	26.5	7.1	22.7	2.0	.2
Florida	100.0	27.2	61.2	.0	10.9	.0	.4	.0	.3
New York	100.0	7.5	27.8	.0	44.0	8.4	8.7	.0	3.7
District of Columbia	100.0	77.1	9.1	*	6.8	.1	6.7	.1	.1
Alabama	100.0	37.4	43.6	.0	11.2	6.5	1.2	.0	.1
New Mexico	100.0	20.9	9.0	32.5	4.5	32.2	.8	.0	.1
Pennsylvania	100.0	7.0	37.2	*	45.2	.9	9.2	.0	.3
New Jersey	100.0	26.9	53.7	.0	14.9	2.6	1.2	.4	.3
Colorado	100.0	15.2	45.3	.0	20.9	4.9	4.1	9.2	.4
Washington	100.0	14.8	34.3	.0	28.6	.0	9.8	12.0	.5
Illinois	100.0	6.4	7.3	.0	44.7	35.4	5.5	.0	.8
Arizona	100.0	14.0	64.6	.0	16.2	3.7	.8	.0	.7
Missouri	100.0	5.2	60.3	.0	31.6	.0	2.4	.0	.5
North Carolina	100.0	25.5	13.1	.0	54.0	.0	6.9	.0	.5
Minnesota	100.0	4.8	58.5	.0	24.3	.0	11.6	.0	.8
Michigan	100.0	14.9	21.4	.0	60.1	.0	2.4	.0	1.2
Connecticut	100.0	2.6	54.8	.0	38.3	.0	3.4	.0	.8
Tennessee	100.0	6.1	8.7	49.5	29.1	1.7	4.5	.0	.5
Utah	100.0	34.5	28.4	.0	36.3	.0	.3	.0	.5
Rhode Island	100.0	57.6	20.3	.0	15.6	.0	6.0	.0	.5
Indiana	100.0	10.1	37.7	.0	50.3	.1	.9	.0	1.0
Wisconsin	100.0	11.4	4.8	.0	80.0	.0	2.5	.0	1.3
Oregon	100.0	27.9	7.9	.0	54.7	.0	6.6	.0	2.9
Nevada	100.0	16.7	72.7	.0	8.7	.0	1.4	.0	.6
Mississippi	100.0	47.4	25.1	.0	24.1	.0	2.8	.0	.6
New Hampshire	100.0	12.6	60.8	.0	25.7	.0	.6	.0	.3
West Virginia	100.0	39.8	34.9	.0	11.0	12.5	.4	.0	1.3
Iowa	100.0	13.9	10.5	.0	63.9	8.8	1.7	.0	1.2
Louisiana	100.0	37.7	9.0	.0	50.0	.0	1.8	.0	1.5
Idaho	100.0	11.7	50.8	26.7	9.7	.0	.6	.0	.4
Kentucky	100.0	3.5	52.7	.0	38.9	.0	.9	.0	4.0
South Carolina	100.0	24.1	11.9	9.8	49.6	.0	1.4	.4	2.9
Oklahoma	100.0	29.1	30.8	.0	34.5	.0	4.6	.0	1.1
Hawaii	100.0	34.1	18.8	.0	32.5	.0	13.5	.0	1.1
Kansas	100.0	19.2	15.3	.0	61.0	.0	.9	.0	3.6
Alaska	100.0	41.2	16.5	.0	27.7	.0	3.5	.0	11.2
Maine	100.0	10.5	42.7	.0	14.6	.0	29.9	.0	2.3
Arkansas	100.0	47.3	2.3	.0	46.4	.0	2.6	.0	1.5
Nebraska	100.0	34.0	2.5	.0	54.5	.0	7.7	.0	1.3
Montana	100.0	41.0	12.3	.0	40.8	.0	3.9	.0	2.0
Vermont	100.0	7.2	22.3	.0	65.7	.0	2.6	.0	2.2
North Dakota	100.0	52.5	.7	.0	40.4	.0	2.2	.0	4.2
South Dakota	100.0	59.8	13.2	.0	20.5	.0	4.6	.0	1.9
Delaware	100.0	8.2	17.4	.0	66.3	.0	6.7	.0	1.3

See explanatory information, if any, and SOURCE at end of table.

Table C-83b. Percentage distribution of Federal obligations for research and development to each State for selected agencies, by performer: fiscal year 1998 (revised)

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State (in order of total Federal research & development obligations)	Total	Intra-mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Wyoming	100.0	35.7	3.3	.0	50.0	.0	8.4	.0	2.6
Outlying areas	100.0	36.0	15.1	.0	41.2	7.2	.0	.0	.6
Puerto Rico	100.0	12.1	.1	.0	73.8	13.0	.0	.0	1.0
Other areas	100.0	65.6	33.6	.0	.8	.0	.0	.0	*
Offices abroad	100.0	84.7	13.6	.0	1.7	.0	.0	.0	.0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1998.

KEY: * = Amount less than .05 percent
FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000

**Table C-85. Federal obligations for research and development, by State,
selected agency, and performer: fiscal year 1998 (revised)**

[Dollars in thousands]

Page 1 of 14

State and agency	Total	Intra- mural ¹	Extramural						State and local govts
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	
Alabama, total	2,012,829	752,619	878,065	0	225,263	130,201	24,312	0	2,369
Department of Agriculture	14,781	4,961	0	0	9,795	0	0	0	25
Department of Commerce	610	5	213	0	392	0	0	0	0
Department of Defense, research ²	82,355	33,791	32,494	0	14,354	0	1,716	0	0
Department of Defense, total development ³	1,075,142	400,252	672,003	0	2,427	0	460	0	0
Department of Energy	152,195	49	16,198	0	4,410	130,201	1,337	0	0
Department of Health & Human Svcs	164,201	404	2,861	0	147,132	0	13,784	0	20
Department of the Interior	4,662	4,304	35	0	255	0	0	0	68
Department of Transportation	3,465	159	355	0	759	0	0	0	2,192
Environmental Protection Agency	4,531	0	230	0	960	0	3,341	0	0
National Aeronautics and Space Admin	498,536	308,694	153,176	0	33,697	0	2,905	0	64
National Science Foundation	12,351	0	500	0	11,082	0	769	0	0
Alaska, total	106,939	44,010	17,637	0	29,598	0	3,707	0	11,987
Department of Agriculture	7,574	5,159	0	0	2,415	0	0	0	0
Department of Commerce	24,261	19,743	0	0	4,472	0	0	0	46
Department of Defense, research ²	932	632	187	0	113	0	0	0	0
Department of Defense, total development ³	26,330	1,096	14,570	0	664	0	0	0	10,000
Department of Energy	50	0	0	0	50	0	0	0	0
Department of Health & Human Svcs	2,109	285	119	0	1,424	0	0	0	281
Department of the Interior	22,129	16,756	2,230	0	2,748	0	31	0	364
Department of Transportation	1,296	0	0	0	0	0	0	0	1,296
Environmental Protection Agency	290	0	70	0	220	0	0	0	0
National Aeronautics and Space Admin	12,250	339	85	0	9,326	0	2,500	0	0
National Science Foundation	9,718	0	376	0	8,166	0	1,176	0	0
Arizona, total	985,734	138,493	636,632	0	159,883	36,485	7,777	0	6,464
Department of Agriculture	21,817	15,904	0	0	5,872	0	41	0	0
Department of Commerce	2,059	114	901	0	1,044	0	0	0	0
Department of Defense, research ²	45,374	9,278	19,939	0	16,148	0	9	0	0
Department of Defense, total development ³	681,123	92,575	580,800	0	5,148	0	0	0	2,600
Department of Energy	4,017	0	0	0	4,017	0	0	0	0
Department of Health & Human Svcs	84,299	4,830	3,533	0	67,961	0	6,149	0	1,826
Department of the Interior	11,984	10,780	47	0	1,015	0	7	0	135
Department of Transportation	1,753	0	25	0	25	0	0	0	1,703
Environmental Protection Agency	2,512	0	212	0	2,300	0	0	0	0
National Aeronautics and Space Admin	56,587	5,012	29,150	0	20,867	0	1,358	0	200
National Science Foundation	74,209	0	2,025	0	35,486	36,485	213	0	0
Arkansas, total	97,026	45,895	2,199	0	44,974	0	2,488	0	1,470
Department of Agriculture	26,191	13,730	9	0	12,452	0	0	0	0
Department of Commerce	388	58	0	0	0	0	330	0	0
Department of Defense, research ²	3,953	0	196	0	3,757	0	0	0	0
Department of Defense, total development ³	4,467	3,857	550	0	60	0	0	0	0
Department of Energy	50	0	0	0	50	0	0	0	0
Department of Health & Human Svcs	49,208	23,983	679	0	22,363	0	2,158	0	25
Department of the Interior	4,443	4,267	4	0	132	0	0	0	40
Department of Transportation	1,405	0	0	0	0	0	0	0	1,405
Environmental Protection Agency	381	0	0	0	381	0	0	0	0
National Aeronautics and Space Admin	1,881	0	685	0	1,196	0	0	0	0
National Science Foundation	4,659	0	76	0	4,583	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table C-85. Federal obligations for research and development, by State,
selected agency, and performer: fiscal year 1998 (revised)**

[Dollars in thousands]

Page 2 of 14

State and agency	Total	Intra- mural ¹	Extramural						State and local govts
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	
California, total	12,215,846	1,595,270	5,937,882	13,220	1,886,772	2,017,569	519,452	120,883	124,798
Department of Agriculture	78,512	57,938	0	0	20,113	0	461	0	0
Department of Commerce	80,711	18,401	53,469	0	7,610	0	534	0	697
Department of Defense, research ²	656,996	115,869	301,420	0	186,720	27,319	19,826	5,842	0
Department of Defense, total development ³	5,779,574	1,052,471	4,443,438	1,674	33,458	42,485	11,318	97,297	97,433
Department of Energy	1,022,019	7,432	73,968	11,546	109,613	805,229	14,231	0	0
Department of Health & Human Svcs	1,529,761	5,225	121,515	0	1,009,445	22,030	355,107	14,689	1,750
Department of the Interior	36,965	25,964	1,047	0	9,455	0	22	0	477
Department of Transportation	23,566	951	5,743	0	4,676	0	1,461	0	10,735
Environmental Protection Agency	31,969	0	1,086	0	23,237	0	821	0	6,825
National Aeronautics and Space Admin	2,628,415	310,808	924,573	0	168,470	1,120,293	94,448	2,942	6,881
National Science Foundation	347,358	211	11,623	0	313,975	213	21,223	113	0
Colorado, total	1,334,209	202,224	604,876	0	278,740	65,204	54,822	123,027	5,316
Department of Agriculture	26,699	20,378	0	0	6,143	0	178	0	0
Department of Commerce	86,190	76,599	1,917	0	7,674	0	0	0	0
Department of Defense, research ²	58,227	4,930	36,660	0	14,295	16	2,296	30	0
Department of Defense, total development ³	501,183	46,242	449,151	0	2,178	1,875	1,737	0	0
Department of Energy	138,686	2,910	1,500	0	8,618	0	2,621	122,997	40
Department of Health & Human Svcs	187,331	745	7,545	0	140,823	0	35,005	0	3,213
Department of the Interior	45,101	41,871	42	0	2,648	0	188	0	352
Department of Transportation	11,836	3	10,394	0	101	0	0	0	1,338
Environmental Protection Agency	10,201	0	70	0	4,126	0	6,005	0	0
National Aeronautics and Space Admin	156,560	8,130	93,036	0	49,087	381	5,757	0	169
National Science Foundation	112,195	416	4,561	0	43,047	62,932	1,035	0	204
Connecticut, total	692,341	18,257	379,213	0	265,433	0	23,557	0	5,881
Department of Agriculture	6,151	2,591	0	0	2,679	0	0	0	881
Department of Commerce	5,728	235	3,145	0	2,348	0	0	0	0
Department of Defense, research ²	39,490	1,711	27,108	0	8,400	0	2,271	0	0
Department of Defense, total development ³	244,089	3,400	232,876	0	290	0	7,523	0	0
Department of Energy	54,480	0	44,129	0	10,351	0	0	0	0
Department of Health & Human Svcs	236,460	24	6,995	0	215,093	0	11,407	0	2,941
Department of the Interior	1,467	1,296	55	0	116	0	0	0	0
Department of Transportation	14,327	9,000	3,704	0	0	0	0	0	1,623
Environmental Protection Agency	891	0	210	0	245	0	0	0	436
National Aeronautics and Space Admin	63,436	0	58,961	0	2,441	0	2,034	0	0
National Science Foundation	25,822	0	2,030	0	23,470	0	322	0	0
Delaware, total	45,214	3,722	7,877	0	29,971	0	3,042	0	602
Department of Agriculture	3,715	1,366	0	0	2,349	0	0	0	0
Department of Commerce	1,818	634	214	0	970	0	0	0	0
Department of Defense, research ²	9,670	628	3,414	0	5,540	0	88	0	0
Department of Defense, total development ³	2,065	386	1,601	0	78	0	0	0	0
Department of Energy	1,504	0	181	0	1,263	0	60	0	0
Department of Health & Human Svcs	7,577	5	841	0	6,148	0	533	0	50
Department of the Interior	828	703	0	0	95	0	0	0	30
Department of Transportation	922	0	400	0	0	0	0	0	522
Environmental Protection Agency	1,554	0	0	0	1,554	0	0	0	0
National Aeronautics and Space Admin	4,036	0	839	0	2,125	0	1,072	0	0
National Science Foundation	11,525	0	387	0	9,849	0	1,289	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table C-85. Federal obligations for research and development, by State,
selected agency, and performer: fiscal year 1998 (revised)**

[Dollars in thousands]

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State and agency	Total	Intra- mural ¹	Extramural						State and local govts
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	
District of Columbia, total	2,229,086	1,717,704	202,014	350	151,507	2,036	150,383	2,119	2,973
Department of Agriculture	168,355	157,585	9,278	0	758	0	589	0	145
Department of Commerce	16,087	14,066	522	0	796	0	703	0	0
Department of Defense, research ²	243,464	208,289	16,683	0	14,798	0	3,694	0	0
Department of Defense, total development ³	850,701	685,541	117,253	350	42,222	2,036	1,250	2,049	0
Department of Energy	282,183	268,485	2,422	0	1,750	0	9,526	0	0
Department of Health & Human Svcs	179,298	54,131	17,076	0	71,810	0	36,081	0	200
Department of the Interior	2,351	2,030	134	0	32	0	155	0	0
Department of Transportation	145,327	101,069	31,529	0	4,179	0	8,057	70	423
Environmental Protection Agency	70,834	51,000	2,082	0	590	0	14,987	0	2,175
National Aeronautics and Space Admin	196,235	169,136	3,749	0	7,177	0	16,143	0	30
National Science Foundation	74,251	6,372	1,286	0	7,395	0	59,198	0	0
Florida, total	2,752,371	749,648	1,683,990	0	299,747	0	10,708	0	8,278
Department of Agriculture	35,715	23,313	153	0	12,219	0	0	0	30
Department of Commerce	46,249	35,271	1,924	0	8,629	0	349	0	76
Department of Defense, research ²	137,227	65,939	37,831	0	32,940	0	517	0	0
Department of Defense, total development ³	1,834,182	380,814	1,451,687	0	1,498	0	10	0	173
Department of Energy	57,739	0	45,336	0	12,403	0	0	0	0
Department of Health & Human Svcs	156,940	49	6,819	0	143,894	0	5,595	0	583
Department of the Interior	28,666	25,295	336	0	2,869	0	0	0	166
Department of Transportation	6,019	0	929	0	30	0	0	0	5,060
Environmental Protection Agency	8,824	7,650	0	0	776	0	40	0	358
National Aeronautics and Space Admin	374,334	211,317	137,226	0	22,273	0	1,686	0	1,832
National Science Foundation	66,476	0	1,749	0	62,216	0	2,511	0	0
Georgia, total	3,442,612	235,596	2,920,561	0	270,814	0	10,287	0	5,354
Department of Agriculture	46,693	34,407	0	0	12,212	0	44	0	30
Department of Commerce	4,618	942	2,812	0	852	0	0	0	12
Department of Defense, research ²	43,026	7,719	10,982	0	23,571	0	754	0	0
Department of Defense, total development ³	2,936,588	19,899	2,894,988	0	18,928	0	2,773	0	0
Department of Energy	11,477	0	396	0	10,318	0	763	0	0
Department of Health & Human Svcs	312,057	150,719	3,958	0	153,214	0	4,042	0	124
Department of the Interior	7,880	7,236	84	0	492	0	0	0	68
Department of Transportation	4,935	188	0	0	742	0	0	0	4,005
Environmental Protection Agency	16,199	10,200	251	0	5,584	0	164	0	0
National Aeronautics and Space Admin	22,841	4,286	6,121	0	10,687	0	1,747	0	0
National Science Foundation	36,298	0	969	0	34,214	0	0	0	1,115
Hawaii, total	160,826	54,776	30,246	0	52,256	0	21,777	0	1,771
Department of Agriculture	21,859	11,159	0	0	5,110	0	5,590	0	0
Department of Commerce	13,772	9,263	355	0	3,407	0	110	0	637
Department of Defense, research ²	14,844	5,433	7,238	0	2,173	0	0	0	0
Department of Defense, total development ³	45,439	23,556	21,381	0	502	0	0	0	0
Department of Energy	3,541	0	0	0	3,421	0	120	0	0
Department of Health & Human Svcs	21,868	59	779	0	17,163	0	3,307	0	560
Department of the Interior	5,810	5,106	52	0	523	0	129	0	0
Department of Transportation	548	0	0	0	0	0	0	0	548
National Aeronautics and Space Admin	18,574	200	41	0	6,115	0	12,192	0	26
National Science Foundation	14,571	0	400	0	13,842	0	329	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table C-85. Federal obligations for research and development, by State,
selected agency, and performer: fiscal year 1998 (revised)**

[Dollars in thousands]

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State and agency	Total	Intra- mural ¹	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
Idaho, total	213,625	25,042	108,599	57,105	20,652	0	1,337	0	890
Department of Agriculture	17,793	13,648	0	0	4,145	0	0	0	0
Department of Commerce	1,320	1,320	0	0	0	0	0	0	0
Department of Defense, research ²	5,742	296	408	2,189	2,849	0	0	0	0
Department of Defense, total development ³	13,760	660	12,722	254	124	0	0	0	0
Department of Energy	157,221	1,400	95,263	53,167	7,391	0	0	0	0
Department of Health & Human Svcs	2,869	9	101	0	1,422	0	1,337	0	0
Department of the Interior	9,068	7,370	5	0	1,603	0	0	0	90
Department of Transportation	2,228	0	33	1,395	0	0	0	0	800
National Aeronautics and Space Admin	912	339	67	100	406	0	0	0	0
National Science Foundation	2,712	0	0	0	2,712	0	0	0	0
Illinois, total	1,127,553	71,946	82,221	0	504,232	398,996	61,529	0	8,629
Department of Agriculture	43,013	31,528	0	0	11,075	0	410	0	0
Department of Commerce	4,720	67	3,590	0	683	0	380	0	0
Department of Defense, research ²	59,088	11,428	9,909	0	34,155	3,385	211	0	0
Department of Defense, total development ³	64,405	16,364	34,717	0	7,980	5,216	128	0	0
Department of Energy	454,767	4,595	13,427	0	44,628	390,068	2,049	0	0
Department of Health & Human Svcs	342,935	342	10,615	0	274,036	0	53,520	0	4,422
Department of the Interior	5,786	5,112	4	0	205	0	0	0	465
Department of Transportation	11,685	45	4,601	0	2,626	57	804	0	3,552
Environmental Protection Agency	2,860	0	282	0	2,578	0	0	0	0
National Aeronautics and Space Admin	17,556	2,465	3,365	0	10,187	270	1,079	0	190
National Science Foundation	120,738	0	1,711	0	116,079	0	2,948	0	0
Indiana, total	377,735	38,023	142,363	0	189,882	200	3,318	0	3,949
Department of Agriculture	14,097	4,936	0	0	9,161	0	0	0	0
Department of Commerce	2,180	84	1,049	0	572	0	475	0	0
Department of Defense, research ²	17,943	2,318	3,174	0	12,451	0	0	0	0
Department of Defense, total development ³	158,336	25,878	129,549	0	962	200	1,747	0	0
Department of Energy	17,778	0	150	0	17,628	0	0	0	0
Department of Health & Human Svcs	106,863	155	3,796	0	101,374	0	300	0	1,238
Department of the Interior	3,996	3,731	25	0	79	0	0	0	161
Department of Transportation	3,612	0	1,062	0	0	0	0	0	2,550
Environmental Protection Agency	1,105	0	56	0	584	0	465	0	0
National Aeronautics and Space Admin	7,708	921	3,175	0	3,281	0	331	0	0
National Science Foundation	44,117	0	327	0	43,790	0	0	0	0
Iowa, total	236,084	32,701	24,757	0	150,856	20,824	4,093	0	2,853
Department of Agriculture	39,549	27,187	0	0	12,360	0	2	0	0
Department of Commerce	807	0	357	0	450	0	0	0	0
Department of Defense, research ²	9,809	0	5,573	0	4,106	130	0	0	0
Department of Defense, total development ³	18,393	343	15,192	0	1,783	1,075	0	0	0
Department of Energy	26,793	0	0	0	4,999	19,619	2,175	0	0
Department of Health & Human Svcs	105,402	11	1,951	0	101,249	0	1,901	0	290
Department of the Interior	5,362	5,160	3	0	120	0	0	0	79
Department of Transportation	3,051	0	0	0	567	0	0	0	2,484
Environmental Protection Agency	2,369	0	0	0	2,369	0	0	0	0
National Aeronautics and Space Admin	10,666	0	1,681	0	8,985	0	0	0	0
National Science Foundation	13,883	0	0	0	13,868	0	15	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table C-85. Federal obligations for research and development, by State,
selected agency, and performer: fiscal year 1998 (revised)**

[Dollars in thousands]

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State and agency	Total	Intra- mural ¹	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
Kansas, total	128,697	24,757	19,642	0	78,444	0	1,210	0	4,644
Department of Agriculture	13,736	7,849	0	0	5,878	0	9	0	0
Department of Commerce	1,028	154	0	0	425	0	449	0	0
Department of Defense, research ²	5,031	703	185	0	4,143	0	0	0	0
Department of Defense, total development ³	26,245	9,120	16,525	0	600	0	0	0	0
Department of Energy	3,890	0	10	0	3,880	0	0	0	0
Department of Health & Human Svcs	48,338	704	1,501	0	42,073	0	752	0	3,308
Department of the Interior	6,466	6,227	22	0	129	0	0	0	88
Department of Transportation	1,373	0	0	0	125	0	0	0	1,248
Environmental Protection Agency	2,842	0	0	0	2,842	0	0	0	0
National Aeronautics and Space Admin	5,555	0	1,370	0	4,185	0	0	0	0
National Science Foundation	14,193	0	29	0	14,164	0	0	0	0
Kentucky, total	188,955	6,591	99,613	0	73,577	0	1,708	0	7,466
Department of Agriculture	7,845	2	0	0	7,843	0	0	0	0
Department of Commerce	588	88	0	0	0	0	500	0	0
Department of Defense, research ²	4,714	1,413	871	0	2,430	0	0	0	0
Department of Defense, total development ³	4,899	1,949	2,259	0	691	0	0	0	0
Department of Energy	98,213	0	95,267	0	2,946	0	0	0	0
Department of Health & Human Svcs	53,102	9	956	0	47,496	0	955	0	3,686
Department of the Interior	3,689	3,077	15	0	235	0	0	0	362
Department of Transportation	3,418	0	0	0	0	0	0	0	3,418
Environmental Protection Agency	1,840	0	146	0	1,542	0	152	0	0
National Aeronautics and Space Admin	1,533	53	0	0	1,379	0	101	0	0
National Science Foundation	9,114	0	99	0	9,015	0	0	0	0
Louisiana, total	223,555	84,315	20,104	0	111,713	0	4,117	0	3,306
Department of Agriculture	43,348	31,429	0	0	11,879	0	40	0	0
Department of Commerce	3,124	1,383	53	0	1,688	0	0	0	0
Department of Defense, research ²	9,031	979	372	0	7,640	0	40	0	0
Department of Defense, total development ³	28,994	5,895	17,993	0	5,106	0	0	0	0
Department of Energy	4,319	0	0	0	4,319	0	0	0	0
Department of Health & Human Svcs	68,012	3,751	156	0	60,082	0	4,022	0	1
Department of the Interior	16,097	11,149	1,177	0	3,688	0	15	0	68
Department of Transportation	1,676	0	0	0	0	0	0	0	1,676
Environmental Protection Agency	4,962	0	0	0	4,962	0	0	0	0
National Aeronautics and Space Admin	33,797	29,729	253	0	3,815	0	0	0	0
National Science Foundation	10,195	0	100	0	8,534	0	0	0	1,561
Maine, total	103,901	10,953	44,317	0	15,190	0	31,050	0	2,391
Department of Agriculture	3,943	4	0	0	3,934	0	5	0	0
Department of Commerce	6,370	4,156	71	0	1,274	0	869	0	0
Department of Defense, research ²	9,287	121	6,008	0	2,557	0	601	0	0
Department of Defense, total development ³	38,861	3,215	35,646	0	0	0	0	0	0
Department of Energy	223	0	0	0	73	0	0	0	150
Department of Health & Human Svcs	31,072	5	2,049	0	1,285	0	26,346	0	1,387
Department of the Interior	3,976	3,412	9	0	522	0	0	0	33
Department of Transportation	565	0	0	0	0	0	0	0	565
Environmental Protection Agency	996	0	70	0	651	0	275	0	0
National Aeronautics and Space Admin	2,701	40	256	0	1,048	0	1,101	0	256
National Science Foundation	5,907	0	208	0	3,846	0	1,853	0	0

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**Table C-85. Federal obligations for research and development, by State,
selected agency, and performer: fiscal year 1998 (revised)**

[Dollars in thousands]

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State and agency	Total	Intra- mural ¹	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
Maryland, total	7,964,210	4,766,005	2,054,921	163,223	798,113	0	178,769	0	3,179
Department of Agriculture	138,061	130,095	206	0	7,738	0	22	0	0
Department of Commerce	348,425	333,109	7,723	0	7,593	0	0	0	0
Department of Defense, research ²	373,819	250,610	73,959	0	43,842	0	5,408	0	0
Department of Defense, total development ³	2,342,076	1,254,504	919,729	0	162,139	0	5,623	0	81
Department of Energy	58,127	27,684	10,387	0	11,099	0	8,957	0	0
Department of Health & Human Svcs	3,233,290	2,370,500	266,992	163,223	380,322	0	51,323	0	930
Department of the Interior	12,348	11,811	80	0	432	0	0	0	25
Department of Transportation	24,572	3,249	13,145	0	6,519	0	0	0	1,659
Environmental Protection Agency	8,056	0	3,029	0	4,742	0	125	0	160
National Aeronautics and Space Admin	1,364,748	381,677	754,560	0	131,214	0	96,973	0	324
National Science Foundation	60,688	2,766	5,111	0	42,473	0	10,338	0	0
Massachusetts, total	3,112,271	301,193	991,701	0	823,426	221,292	706,800	63,007	4,852
Department of Agriculture	22,399	15,920	472	0	6,007	0	0	0	0
Department of Commerce	44,145	30,771	8,600	0	4,274	0	500	0	0
Department of Defense, research ²	280,359	50,322	93,833	0	86,755	31,831	17,243	375	0
Department of Defense, total development ³	1,159,627	140,570	732,937	0	17,976	189,205	16,307	62,632	0
Department of Energy	100,568	0	17,640	0	76,369	0	6,559	0	0
Department of Health & Human Svcs	1,124,925	1,452	89,333	0	435,429	0	596,604	0	2,107
Department of the Interior	6,062	4,255	342	0	1,209	0	0	0	256
Department of Transportation	38,016	31,922	3,964	0	113	0	55	0	1,962
Environmental Protection Agency	19,434	0	3,325	0	6,457	0	9,125	0	527
National Aeronautics and Space Admin	143,063	24,983	24,363	0	43,498	256	49,963	0	0
National Science Foundation	173,673	998	16,892	0	145,339	0	10,444	0	0
Michigan, total	748,443	111,457	160,127	0	450,082	0	17,989	0	8,788
Department of Agriculture	21,110	6,829	0	0	14,275	0	6	0	0
Department of Commerce	24,263	6,936	14,607	0	1,878	0	442	0	400
Department of Defense, research ²	67,289	24,033	18,973	0	23,457	0	826	0	0
Department of Defense, total development ³	163,625	63,338	84,081	0	13,111	0	3,095	0	0
Department of Energy	15,880	0	0	0	15,750	0	130	0	0
Department of Health & Human Svcs	306,905	736	13,063	0	284,935	0	5,235	0	2,936
Department of the Interior	10,130	9,585	9	0	457	0	0	0	79
Department of Transportation	7,487	0	2,330	0	149	0	1,635	0	3,373
Environmental Protection Agency	18,849	0	4,671	0	9,385	0	2,793	0	2,000
National Aeronautics and Space Admin	30,304	0	19,564	0	8,158	0	2,582	0	0
National Science Foundation	82,601	0	2,829	0	78,527	0	1,245	0	0
Minnesota, total	807,083	38,437	472,522	0	196,262	0	93,791	0	6,071
Department of Agriculture	22,693	15,028	0	0	7,658	0	7	0	0
Department of Commerce	4,578	180	2,926	0	1,472	0	0	0	0
Department of Defense, research ²	26,472	433	15,966	0	8,469	0	1,604	0	0
Department of Defense, total development ³	466,327	1,559	440,578	0	1,683	0	22,507	0	0
Department of Energy	6,564	0	0	0	6,561	0	3	0	0
Department of Health & Human Svcs	211,333	685	7,208	0	131,030	0	69,336	0	3,074
Department of the Interior	8,049	7,502	7	0	499	0	0	0	41
Department of Transportation	5,339	0	15	0	2,368	0	0	0	2,956
Environmental Protection Agency	14,718	12,750	438	0	1,530	0	0	0	0
National Aeronautics and Space Admin	8,093	300	4,583	0	3,170	0	40	0	0
National Science Foundation	32,917	0	801	0	31,822	0	294	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table C-85. Federal obligations for research and development, by State,
selected agency, and performer: fiscal year 1998 (revised)**

[Dollars in thousands]

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State and agency	Total	Intra- mural ¹	Extramural						State and local govts
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	
Mississippi, total	280,366	132,896	70,301	0	67,535	0	7,886	0	1,748
Department of Agriculture	60,342	42,681	0	0	16,868	0	793	0	0
Department of Commerce	6,275	5,727	78	0	470	0	0	0	0
Department of Defense, research ²	50,938	35,664	3,060	0	12,206	0	8	0	0
Department of Defense, total development ³	81,929	41,370	35,832	0	4,727	0	0	0	0
Department of Energy	1,833	0	376	0	1,457	0	0	0	0
Department of Health & Human Svcs	13,914	1	145	0	13,642	0	115	0	11
Department of the Interior	6,320	5,677	22	0	539	0	0	0	82
Department of Transportation	1,923	393	0	0	0	0	0	0	1,530
Environmental Protection Agency	1,542	0	0	0	1,542	0	0	0	0
National Aeronautics and Space Admin	47,604	1,383	30,788	0	8,338	0	6,970	0	125
National Science Foundation	7,746	0	0	0	7,746	0	0	0	0
Missouri, total	930,735	48,544	560,924	0	294,459	0	22,202	0	4,606
Department of Agriculture	20,374	9,681	0	0	10,693	0	0	0	0
Department of Commerce	1,012	343	0	0	85	0	415	0	169
Department of Defense, research ²	35,085	10,896	15,365	0	8,824	0	0	0	0
Department of Defense, total development ³	546,438	13,762	531,964	0	712	0	0	0	0
Department of Energy	4,727	21	340	0	4,356	0	10	0	0
Department of Health & Human Svcs	264,584	634	1,777	0	239,788	0	20,606	0	1,779
Department of the Interior	13,171	12,484	11	0	562	0	0	0	114
Department of Transportation	2,779	6	150	0	0	0	79	0	2,544
Environmental Protection Agency	2,816	0	250	0	2,506	0	60	0	0
National Aeronautics and Space Admin	16,251	717	10,667	0	4,864	0	3	0	0
National Science Foundation	23,498	0	400	0	22,069	0	1,029	0	0
Montana, total	80,670	33,101	9,897	0	32,949	0	3,149	0	1,574
Department of Agriculture	17,657	11,597	15	0	4,665	0	1,380	0	0
Department of Commerce	5,091	53	0	0	4,738	0	300	0	0
Department of Defense, research ²	5,517	15	576	0	4,926	0	0	0	0
Department of Defense, total development ³	7,276	2,606	4,670	0	0	0	0	0	0
Department of Energy	984	0	35	0	875	0	0	0	74
Department of Health & Human Svcs	12,861	5,011	714	0	5,764	0	1,222	0	150
Department of the Interior	14,887	13,794	31	0	841	0	0	0	221
Department of Transportation	1,229	0	0	0	100	0	0	0	1,129
Environmental Protection Agency	321	0	0	0	321	0	0	0	0
National Aeronautics and Space Admin	6,177	25	3,437	0	2,579	0	136	0	0
National Science Foundation	8,670	0	419	0	8,140	0	111	0	0
Nebraska, total	84,982	28,873	2,104	0	46,328	0	6,572	0	1,105
Department of Agriculture	27,427	19,297	0	0	8,130	0	0	0	0
Department of Commerce	744	106	0	0	38	0	600	0	0
Department of Defense, research ²	4,838	473	762	0	3,603	0	0	0	0
Department of Defense, total development ³	2,779	2,302	406	0	71	0	0	0	0
Department of Energy	705	0	0	0	705	0	0	0	0
Department of Health & Human Svcs	30,566	12	602	0	23,837	0	5,942	0	173
Department of the Interior	6,956	6,683	0	0	194	0	0	0	79
Department of Transportation	905	0	0	0	52	0	0	0	853
Environmental Protection Agency	250	0	0	0	220	0	30	0	0
National Aeronautics and Space Admin	2,305	0	234	0	2,071	0	0	0	0
National Science Foundation	7,507	0	100	0	7,407	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table C-85. Federal obligations for research and development, by State,
selected agency, and performer: fiscal year 1998 (revised)**

[Dollars in thousands]

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State and agency	Total	Intra- mural ¹	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
Nevada, total	290,853	48,514	211,316	0	25,268	0	4,107	0	1,648
Department of Agriculture	2,869	436	0	0	2,398	0	35	0	0
Department of Commerce	115	0	2	0	113	0	0	0	0
Department of Defense, research ²	11,964	8,897	1,230	0	1,837	0	0	0	0
Department of Defense, total development ³	31,789	17,456	13,906	0	427	0	0	0	0
Department of Energy	194,692	10	191,035	0	2,865	0	782	0	0
Department of Health & Human Svcs	9,894	11	216	0	7,915	0	1,342	0	410
Department of the Interior	9,508	8,488	0	0	881	0	0	0	139
Department of Transportation	4,946	0	2,039	0	68	0	1,948	0	891
Environmental Protection Agency	14,637	12,750	1,155	0	584	0	0	0	148
National Aeronautics and Space Admin	2,914	466	1,733	0	655	0	0	0	60
National Science Foundation	7,525	0	0	0	7,525	0	0	0	0
New Hampshire, total	269,132	33,959	163,677	0	69,064	0	1,669	0	763
Department of Agriculture	4,673	2,562	0	0	2,109	0	2	0	0
Department of Commerce	7,824	5	1,705	0	6,114	0	0	0	0
Department of Defense, research ²	45,282	9,261	31,731	0	3,715	0	575	0	0
Department of Defense, total development ³	139,110	19,096	118,169	0	854	0	991	0	0
Department of Energy	670	0	0	0	670	0	0	0	0
Department of Health & Human Svcs	35,610	5	2,769	0	32,548	0	101	0	187
Department of the Interior	1,971	1,824	0	0	99	0	0	0	48
Department of Transportation	2,191	283	14	0	1,366	0	0	0	528
Environmental Protection Agency	889	0	0	0	889	0	0	0	0
National Aeronautics and Space Admin	18,349	350	8,477	0	9,522	0	0	0	0
National Science Foundation	12,563	573	812	0	11,178	0	0	0	0
New Jersey, total	1,459,570	392,554	784,488	0	218,031	37,387	17,106	6,082	3,922
Department of Agriculture	7,226	19	0	0	7,207	0	0	0	0
Department of Commerce	23,458	15,892	3,272	0	3,834	0	460	0	0
Department of Defense, research ²	114,869	37,155	54,270	0	23,260	115	17	52	0
Department of Defense, total development ³	880,567	298,359	573,431	0	2,672	0	0	6,030	75
Department of Energy	69,267	0	14,369	0	17,401	37,272	225	0	0
Department of Health & Human Svcs	123,404	198	14,454	0	95,006	0	12,755	0	991
Department of the Interior	3,970	3,514	136	0	221	0	0	0	99
Department of Transportation	107,756	35,365	69,185	0	449	0	0	0	2,757
Environmental Protection Agency	5,044	0	0	0	2,159	0	2,885	0	0
National Aeronautics and Space Admin	64,684	1,902	52,483	0	9,647	0	652	0	0
National Science Foundation	59,325	150	2,888	0	56,175	0	112	0	0
New Mexico, total	1,891,565	395,908	170,514	614,018	85,267	608,320	15,147	0	2,391
Department of Agriculture	7,431	3,650	0	0	3,771	0	10	0	0
Department of Commerce	1,400	43	1,113	0	0	0	244	0	0
Department of Defense, research ²	87,902	40,431	27,892	6,616	9,010	3,647	306	0	0
Department of Defense, total development ³	498,879	318,138	100,437	57,017	3,032	20,255	0	0	0
Department of Energy	1,175,695	9,031	26,171	548,800	9,958	574,435	7,300	0	0
Department of Health & Human Svcs	46,423	1,693	2,302	0	32,651	6,122	2,717	0	938
Department of the Interior	9,351	8,806	60	0	241	0	0	0	244
Department of Transportation	6,371	0	65	1,333	394	3,370	0	0	1,209
Environmental Protection Agency	4,278	0	993	0	100	0	3,185	0	0
National Aeronautics and Space Admin	40,943	13,630	10,074	252	16,179	390	418	0	0
National Science Foundation	12,892	486	1,407	0	9,931	101	967	0	0

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**Table C-85. Federal obligations for research and development, by State,
selected agency, and performer: fiscal year 1998 (revised)**

[Dollars in thousands]

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State and agency	Total	Intra- mural ¹	Extramural						State and local govts
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	
New York, total	2,551,833	191,988	709,033	0	1,121,737	213,181	221,286	0	94,608
Department of Agriculture	33,988	16,169	102	0	16,721	0	996	0	0
Department of Commerce	18,360	972	10,403	0	5,808	27	550	0	600
Department of Defense, research ²	140,444	57,338	30,634	0	49,523	982	1,967	0	0
Department of Defense, total development ³	465,914	98,642	352,109	0	12,967	0	2,196	0	0
Department of Energy	553,803	6,351	275,480	0	61,593	207,628	2,751	0	0
Department of Health & Human Svcs	1,076,498	1,421	20,820	0	774,425	1,749	190,151	0	87,932
Department of the Interior	8,200	6,377	61	0	1,752	0	0	0	10
Department of Transportation	9,836	450	2,122	0	1,860	0	0	0	5,404
Environmental Protection Agency	8,621	0	11	0	5,749	0	2,861	0	0
National Aeronautics and Space Admin	58,805	4,268	14,263	0	28,083	1,953	10,238	0	0
National Science Foundation	177,364	0	3,028	0	163,256	842	9,576	0	662
North Carolina, total	924,652	235,873	121,168	0	499,001	0	63,610	0	5,000
Department of Agriculture	33,582	17,100	499	0	15,920	0	63	0	0
Department of Commerce	13,234	4,717	5,705	0	2,812	0	0	0	0
Department of Defense, research ²	67,277	18,423	10,568	0	36,551	0	1,735	0	0
Department of Defense, total development ³	73,087	23,178	43,247	0	6,382	0	280	0	0
Department of Energy	16,848	425	0	0	15,251	0	1,172	0	0
Department of Health & Human Svcs	517,469	85,021	20,564	0	359,319	0	50,821	0	1,744
Department of the Interior	7,504	5,424	1,273	0	568	0	55	0	184
Department of Transportation	5,095	0	0	0	2,023	0	0	0	3,072
Environmental Protection Agency	132,314	81,559	35,051	0	10,712	0	4,992	0	0
National Aeronautics and Space Admin	13,266	27	1,609	0	8,497	0	3,133	0	0
National Science Foundation	44,977	0	2,652	0	40,966	0	1,359	0	0
North Dakota, total	52,088	27,360	376	0	21,036	0	1,145	0	2,171
Department of Agriculture	26,003	20,240	0	0	5,763	0	0	0	0
Department of Commerce	659	99	0	0	560	0	0	0	0
Department of Defense, research ²	2,001	1	0	0	2,000	0	0	0	0
Department of Defense, total development ³	555	200	355	0	0	0	0	0	0
Department of Energy	5,167	0	0	0	5,167	0	0	0	0
Department of Health & Human Svcs	2,872	5	9	0	2,113	0	335	0	410
Department of the Interior	6,893	6,815	12	0	25	0	0	0	41
Department of Transportation	1,720	0	0	0	0	0	0	0	1,720
Environmental Protection Agency	1,100	0	0	0	1,100	0	0	0	0
National Aeronautics and Space Admin	1,854	0	0	0	1,794	0	60	0	0
National Science Foundation	3,264	0	0	0	2,514	0	750	0	0
Ohio, total	5,562,227	698,173	4,388,253	0	344,724	0	125,380	0	5,697
Department of Agriculture	15,579	7,067	0	0	8,156	0	348	0	8
Department of Commerce	4,387	58	3,074	0	955	0	300	0	0
Department of Defense, research ²	282,323	182,980	64,441	0	20,743	0	14,159	0	0
Department of Defense, total development ³	4,276,668	190,954	4,054,163	0	11,856	0	19,695	0	0
Department of Energy	16,901	0	7,927	0	8,595	0	379	0	0
Department of Health & Human Svcs	360,550	33,319	15,538	0	236,409	0	74,237	0	1,047
Department of the Interior	5,397	4,780	18	0	427	0	0	0	172
Department of Transportation	14,638	4,941	4,075	0	1,837	0	80	0	3,705
Environmental Protection Agency	64,938	48,450	10,272	0	3,791	0	1,950	0	475
National Aeronautics and Space Admin	482,907	225,624	227,732	0	15,208	0	14,053	0	290
National Science Foundation	37,939	0	1,013	0	36,747	0	179	0	0

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**Table C-85. Federal obligations for research and development, by State,
selected agency, and performer: fiscal year 1998 (revised)**

[Dollars in thousands]

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State and agency	Total	Intra- mural ¹	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
Oklahoma, total	175,497	51,038	54,017	0	60,570	0	7,988	0	1,884
Department of Agriculture	17,712	10,676	0	0	7,036	0	0	0	0
Department of Commerce	6,642	6,472	3	0	167	0	0	0	0
Department of Defense, research ²	19,313	8,015	6,667	0	4,631	0	0	0	0
Department of Defense, total development ³	22,127	9,953	11,939	0	235	0	0	0	0
Department of Energy	26,475	1,424	21,371	0	3,680	0	0	0	0
Department of Health & Human Svcs	34,946	11	919	0	26,018	0	7,884	0	114
Department of the Interior	5,489	5,217	4	0	159	0	0	0	109
Department of Transportation	11,787	1,620	8,307	0	199	0	0	0	1,661
Environmental Protection Agency	14,326	7,650	3,407	0	3,269	0	0	0	0
National Aeronautics and Space Admin	3,212	0	1,101	0	2,111	0	0	0	0
National Science Foundation	13,468	0	299	0	13,065	0	104	0	0
Oregon, total	314,710	87,846	24,915	0	171,995	0	20,849	0	9,105
Department of Agriculture	35,129	23,735	0	0	11,281	0	113	0	0
Department of Commerce	16,004	11,088	1,608	0	3,053	0	114	0	141
Department of Defense, research ²	13,898	0	2,489	0	11,409	0	0	0	0
Department of Defense, total development ³	2,780	534	1,394	0	462	0	390	0	0
Department of Energy	34,653	27,988	244	0	3,696	0	75	0	2,650
Department of Health & Human Svcs	135,026	21	9,479	0	101,013	0	19,853	0	4,660
Department of the Interior	12,117	11,533	10	0	401	0	0	0	173
Department of Transportation	1,834	0	10	0	543	0	0	0	1,281
Environmental Protection Agency	24,064	12,780	4,695	0	6,389	0	0	0	200
National Aeronautics and Space Admin	9,159	167	3,518	0	5,170	0	304	0	0
National Science Foundation	30,046	0	1,468	0	28,578	0	0	0	0
Pennsylvania, total	1,886,258	132,927	702,304	219	853,437	16,884	173,970	0	6,517
Department of Agriculture	42,490	30,989	113	0	11,210	0	178	0	0
Department of Commerce	5,924	109	3,550	0	653	0	1,612	0	0
Department of Defense, research ²	161,383	1,599	62,168	0	80,227	16,744	645	0	0
Department of Defense, total development ³	426,151	27,909	328,862	0	35,613	140	33,627	0	0
Department of Energy	340,893	44,828	257,371	0	25,959	0	12,735	0	0
Department of Health & Human Svcs	725,576	19,222	16,201	0	573,450	0	116,609	0	94
Department of the Interior	8,140	6,223	169	0	1,482	0	0	0	266
Department of Transportation	9,039	123	1,169	219	1,371	0	0	0	6,157
Environmental Protection Agency	4,751	0	136	0	4,615	0	0	0	0
National Aeronautics and Space Admin	51,497	1,925	31,809	0	16,856	0	907	0	0
National Science Foundation	110,414	0	756	0	102,001	0	7,657	0	0
Rhode Island, total	385,411	222,106	78,082	0	60,182	0	22,978	0	2,063
Department of Agriculture	1,835	2	0	0	1,757	0	76	0	0
Department of Commerce	3,727	1,054	493	0	2,180	0	0	0	0
Department of Defense, research ²	31,024	20,924	1,905	0	8,137	0	58	0	0
Department of Defense, total development ³	260,829	188,055	72,774	0	0	0	0	0	0
Department of Energy	2,356	0	0	0	2,351	0	5	0	0
Department of Health & Human Svcs	49,613	5	1,260	0	25,318	0	21,618	0	1,412
Department of the Interior	2,477	1,561	0	0	916	0	0	0	0
Department of Transportation	1,001	50	300	0	0	0	0	0	651
Environmental Protection Agency	12,007	10,199	1,250	0	524	0	34	0	0
National Aeronautics and Space Admin	3,308	256	0	0	2,841	0	211	0	0
National Science Foundation	17,234	0	100	0	16,158	0	976	0	0

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**Table C-85. Federal obligations for research and development, by State,
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[Dollars in thousands]

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State and agency	Total	Intra- mural ¹	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
South Carolina, total	186,221	44,872	22,122	18,191	92,443	0	2,583	692	5,318
Department of Agriculture	14,864	8,443	0	0	6,110	0	0	0	311
Department of Commerce	10,699	8,085	61	0	2,553	0	0	0	0
Department of Defense, research ²	15,092	937	4,851	0	9,270	0	34	0	0
Department of Defense, total development ³	37,177	22,368	12,130	0	1,033	0	954	692	0
Department of Energy	28,331	1	888	18,191	8,537	0	714	0	0
Department of Health & Human Svcs	50,813	16	3,570	0	44,686	0	275	0	2,266
Department of the Interior	4,501	3,672	191	0	162	0	0	0	476
Department of Transportation	1,812	0	0	0	51	0	0	0	1,761
Environmental Protection Agency	2,312	0	0	0	1,862	0	0	0	450
National Aeronautics and Space Admin	3,296	1,350	31	0	1,890	0	25	0	0
National Science Foundation	17,324	0	400	0	16,289	0	581	0	54
South Dakota, total	46,003	27,501	6,083	0	9,429	0	2,125	0	865
Department of Agriculture	7,007	4,018	0	0	2,989	0	0	0	0
Department of Commerce	677	102	0	0	0	0	575	0	0
Department of Defense, research ²	1,349	334	343	0	672	0	0	0	0
Department of Defense, total development ³	450	395	55	0	0	0	0	0	0
Department of Energy	50	0	0	0	50	0	0	0	0
Department of Health & Human Svcs	2,578	740	365	0	1,323	0	50	0	100
Department of the Interior	13,526	8,631	4,846	0	49	0	0	0	0
Department of Transportation	781	0	16	0	0	0	0	0	765
Environmental Protection Agency	275	0	0	0	275	0	0	0	0
National Aeronautics and Space Admin	15,950	13,281	40	0	1,129	0	1,500	0	0
National Science Foundation	3,360	0	418	0	2,942	0	0	0	0
Tennessee, total	621,155	37,925	54,239	307,181	181,024	10,256	27,685	0	2,845
Department of Agriculture	8,712	1	0	0	8,711	0	0	0	0
Department of Commerce	1,598	886	0	0	187	0	525	0	0
Department of Defense, research ²	17,381	1,972	4,843	3,065	7,499	0	2	0	0
Department of Defense, total development ³	47,443	20,052	14,034	12,577	780	0	0	0	0
Department of Energy	319,786	1,604	13,459	286,521	8,078	9,975	149	0	0
Department of Health & Human Svcs	168,671	1,812	3,984	0	135,644	281	26,950	0	0
Department of the Interior	6,193	5,154	12	0	994	0	0	0	33
Department of Transportation	4,382	282	196	1,390	0	0	0	0	2,514
Environmental Protection Agency	1,467	0	149	0	1,318	0	0	0	0
National Aeronautics and Space Admin	29,971	5,957	16,653	3,628	3,435	0	0	0	298
National Science Foundation	15,551	205	909	0	14,378	0	59	0	0
Texas, total	4,110,756	596,978	2,741,834	0	691,377	0	69,230	1,496	9,841
Department of Agriculture	63,664	47,422	0	0	16,221	0	10	0	11
Department of Commerce	12,545	2,590	4,185	0	5,770	0	0	0	0
Department of Defense, research ²	166,667	56,786	69,704	0	37,621	0	2,556	0	0
Department of Defense, total development ³	933,699	75,692	831,541	0	22,048	0	2,839	1,496	83
Department of Energy	22,885	0	1,266	0	21,270	0	349	0	0
Department of Health & Human Svcs	523,738	2,036	14,480	0	477,396	0	28,981	0	845
Department of the Interior	23,049	18,873	718	0	3,215	0	83	0	160
Department of Transportation	12,444	0	3,746	0	409	0	0	0	8,289
Environmental Protection Agency	14,976	0	1,601	0	11,175	0	2,000	0	200
National Aeronautics and Space Admin	2,265,388	393,579	1,812,232	0	27,930	0	31,394	0	253
National Science Foundation	71,701	0	2,361	0	68,322	0	1,018	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table C-85. Federal obligations for research and development, by State,
selected agency, and performer: fiscal year 1998 (revised)**

[Dollars in thousands]

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State and agency	Total	Intra- mural ¹	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
Utah, total	392,807	135,365	111,547	0	142,514	0	1,296	0	2,085
Department of Agriculture	13,527	8,153	0	0	5,373	0	1	0	0
Department of Commerce	2,293	84	1,502	0	232	0	0	0	475
Department of Defense, research ²	19,258	6,776	5,039	0	7,443	0	0	0	0
Department of Defense, total development ³	221,015	113,144	95,044	0	12,827	0	0	0	0
Department of Energy	8,000	0	865	0	6,800	0	0	0	335
Department of Health & Human Svcs	78,397	40	4,316	0	72,863	0	1,040	0	138
Department of the Interior	7,802	6,802	54	0	636	0	0	0	310
Department of Transportation	852	0	25	0	0	0	0	0	827
Environmental Protection Agency	1,208	0	70	0	1,138	0	0	0	0
National Aeronautics and Space Admin	16,306	366	3,919	0	12,021	0	0	0	0
National Science Foundation	24,149	0	713	0	23,181	0	255	0	0
Vermont, total	57,596	4,171	12,827	0	37,865	0	1,483	0	1,250
Department of Agriculture	5,418	1,679	0	0	3,739	0	0	0	0
Department of Commerce	776	126	0	0	40	0	610	0	0
Department of Defense, research ²	2,315	743	237	0	1,335	0	0	0	0
Department of Defense, total development ³	11,325	372	10,896	0	57	0	0	0	0
Department of Energy	584	0	141	0	370	0	73	0	0
Department of Health & Human Svcs	29,291	5	496	0	28,020	0	620	0	150
Department of the Interior	1,378	1,246	8	0	84	0	0	0	40
Department of Transportation	497	0	0	0	0	0	0	0	497
Environmental Protection Agency	743	0	0	0	0	0	180	0	563
National Aeronautics and Space Admin	699	0	556	0	143	0	0	0	0
National Science Foundation	4,570	0	493	0	4,077	0	0	0	0
Virginia, total	4,667,864	1,480,464	2,694,070	879	244,283	61,895	43,793	135,732	6,748
Department of Agriculture	9,580	801	0	0	7,917	0	862	0	0
Department of Commerce	13,022	4,439	6,876	0	1,482	0	225	0	0
Department of Defense, research ²	378,068	105,043	228,092	183	30,078	0	6,060	8,612	0
Department of Defense, total development ³	3,299,279	1,035,758	2,124,529	696	16,108	150	3,428	118,610	0
Department of Energy	86,785	12,254	3,664	0	8,398	61,745	724	0	0
Department of Health & Human Svcs	167,903	4,201	27,618	0	121,857	0	12,657	546	1,024
Department of the Interior	43,493	41,904	580	0	891	0	46	0	72
Department of Transportation	30,455	264	18,599	0	2,310	0	1,200	4,894	3,188
Environmental Protection Agency	21,704	0	15,942	0	1,902	0	3,860	0	0
National Aeronautics and Space Admin	557,914	271,050	248,826	0	21,057	0	11,545	2,972	2,464
National Science Foundation	59,661	4,750	19,344	0	32,283	0	3,186	98	0
Washington, total	1,244,174	183,685	427,331	0	355,630	0	121,688	149,770	6,070
Department of Agriculture	36,264	23,367	0	0	12,728	0	159	0	10
Department of Commerce	61,629	55,976	1,980	0	3,174	0	89	0	410
Department of Defense, research ²	44,902	3,558	16,807	0	20,721	0	1,263	2,553	0
Department of Defense, total development ³	376,187	82,953	286,172	0	3,443	0	419	3,200	0
Department of Energy	161,184	118	5,603	0	17,726	0	263	137,474	0
Department of Health & Human Svcs	381,681	7,787	15,581	0	234,239	0	115,911	5,276	2,887
Department of the Interior	11,445	9,151	19	0	2,001	0	0	0	274
Department of Transportation	5,148	0	1,577	0	15	0	0	1,267	2,289
Environmental Protection Agency	5,272	0	0	0	4,035	0	1,037	0	200
National Aeronautics and Space Admin	109,947	748	97,044	0	10,484	0	1,671	0	0
National Science Foundation	50,515	27	2,548	0	47,064	0	876	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table C-85. Federal obligations for research and development, by State,
selected agency, and performer: fiscal year 1998 (revised)**

[Dollars in thousands]

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State and agency	Total	Intra- mural ¹	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
West Virginia, total	242,844	96,682	84,815	0	26,830	30,448	868	0	3,201
Department of Agriculture	20,579	16,276	0	0	3,888	0	38	0	377
Department of Commerce	647	97	0	0	550	0	0	0	0
Department of Defense, research ²	5,992	0	3,555	0	2,437	0	0	0	0
Department of Defense, total development ³	12,076	446	11,627	0	0	0	0	0	3
Department of Energy	101,577	46,610	49,956	0	4,165	0	721	0	125
Department of Health & Human Svcs	39,299	26,654	2,988	0	8,691	0	0	0	966
Department of the Interior	7,089	6,599	12	0	114	0	0	0	364
Department of Transportation	2,453	0	1,117	0	150	0	0	0	1,186
Environmental Protection Agency	187	0	0	0	0	0	7	0	180
National Aeronautics and Space Admin	18,286	0	11,603	0	6,581	0	102	0	0
National Science Foundation	34,659	0	3,957	0	254	30,448	0	0	0
Wisconsin, total	332,203	38,021	16,017	0	265,640	0	8,233	0	4,292
Department of Agriculture	34,177	24,555	11	0	9,594	0	17	0	0
Department of Commerce	4,547	517	1,875	0	2,155	0	0	0	0
Department of Defense, research ²	8,092	287	992	0	6,813	0	0	0	0
Department of Defense, total development ³	3,906	402	2,390	0	1,114	0	0	0	0
Department of Energy	20,031	0	0	0	19,511	0	520	0	0
Department of Health & Human Svcs	185,558	7	6,057	0	170,526	0	7,478	0	1,490
Department of the Interior	12,733	12,253	5	0	374	0	0	0	101
Department of Transportation	2,952	0	27	0	712	0	0	0	2,213
Environmental Protection Agency	1,988	0	125	0	1,300	0	75	0	488
National Aeronautics and Space Admin	14,615	0	3,967	0	10,530	0	118	0	0
National Science Foundation	43,604	0	568	0	43,011	0	25	0	0
Wyoming, total	33,549	11,991	1,108	0	16,758	0	2,827	0	865
Department of Agriculture	6,833	4,685	0	0	2,144	0	4	0	0
Department of Commerce	24	0	0	0	24	0	0	0	0
Department of Defense, research ²	2,697	96	0	0	2,601	0	0	0	0
Department of Defense, total development ³	254	101	0	0	153	0	0	0	0
Department of Energy	3,787	0	0	0	964	0	2,823	0	0
Department of Health & Human Svcs	1,938	4	292	0	1,617	0	0	0	25
Department of the Interior	7,454	7,105	0	0	271	0	0	0	78
Department of Transportation	1,778	0	125	0	891	0	0	0	762
Environmental Protection Agency	450	0	0	0	450	0	0	0	0
National Aeronautics and Space Admin	850	0	412	0	438	0	0	0	0
National Science Foundation	7,484	0	279	0	7,205	0	0	0	0
Outlying areas, total ⁴	111,908	40,238	16,847	0	46,129	8,058	0	0	636
Department of Agriculture	13,273	5,063	0	0	8,210	0	0	0	0
Department of Commerce	1,029	620	0	0	408	0	0	0	1
Department of Defense, research ²	2,453	500	0	0	1,953	0	0	0	0
Department of Defense, total development ³	43,496	26,700	16,796	0	0	0	0	0	0
Department of Energy	841	0	0	0	841	0	0	0	0
Department of Health & Human Svcs	26,837	682	36	0	25,484	0	0	0	635
Department of the Interior	6,575	6,243	15	0	317	0	0	0	0
Department of Transportation	530	430	0	0	100	0	0	0	0
Environmental Protection Agency	157	0	0	0	157	0	0	0	0
National Aeronautics and Space Admin	3,755	0	0	0	3,755	0	0	0	0
National Science Foundation	12,962	0	0	0	4,904	8,058	0	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table C-85. Federal obligations for research and development, by State,
selected agency, and performer: fiscal year 1998 (revised)**

[Dollars in thousands]

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State and agency	Total	Intra- mural ¹	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
Puerto Rico, total ⁴	61,938	7,476	51	0	45,718	8,058	0	0	635
Department of Agriculture	13,273	5,063	0	0	8,210	0	0	0	0
Department of Commerce	994	616	0	0	378	0	0	0	0
Department of Defense, research ²	1,953	0	0	0	1,953	0	0	0	0
Department of Energy	841	0	0	0	841	0	0	0	0
Department of Health & Human Svcs	26,837	682	36	0	25,484	0	0	0	635
Department of the Interior	1,166	1,115	15	0	36	0	0	0	0
Environmental Protection Agency	157	0	0	0	157	0	0	0	0
National Aeronautics and Space Admin	3,755	0	0	0	3,755	0	0	0	0
National Science Foundation	12,962	0	0	0	4,904	8,058	0	0	0
Other areas, total ⁴	49,970	32,762	16,796	0	411	0	0	0	1
Department of Commerce	35	4	0	0	30	0	0	0	1
Department of Defense, research ²	500	500	0	0	0	0	0	0	0
Department of Defense, total development ³	43,496	26,700	16,796	0	0	0	0	0	0
Department of the Interior	5,409	5,128	0	0	281	0	0	0	0
Department of Transportation	530	430	0	0	100	0	0	0	0
National Science Foundation	0	0	0	0	0	0	0	0	0
Offices abroad, total	18,222	15,434	2,487	0	301	0	0	0	0
Department of Agriculture	3,132	3,132	0	0	0	0	0	0	0
Department of Defense, research ²	1,998	1,937	0	0	61	0	0	0	0
Department of Defense, total development ³	13,092	10,365	2,487	0	240	0	0	0	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² Beginning with Vol. 40, Department of Defense (DoD) research is reported separately from DoD development. DoD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

³ Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems. Geographic data for these categories are not reported; therefore, this table shows only total development.

⁴ Outlying areas, total represents the sum of Puerto Rico, total and Other areas, total.

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D and R&D plant obligations in fiscal year 1998.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999, and 2000